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Figure 1A

Topology diagram of MurI

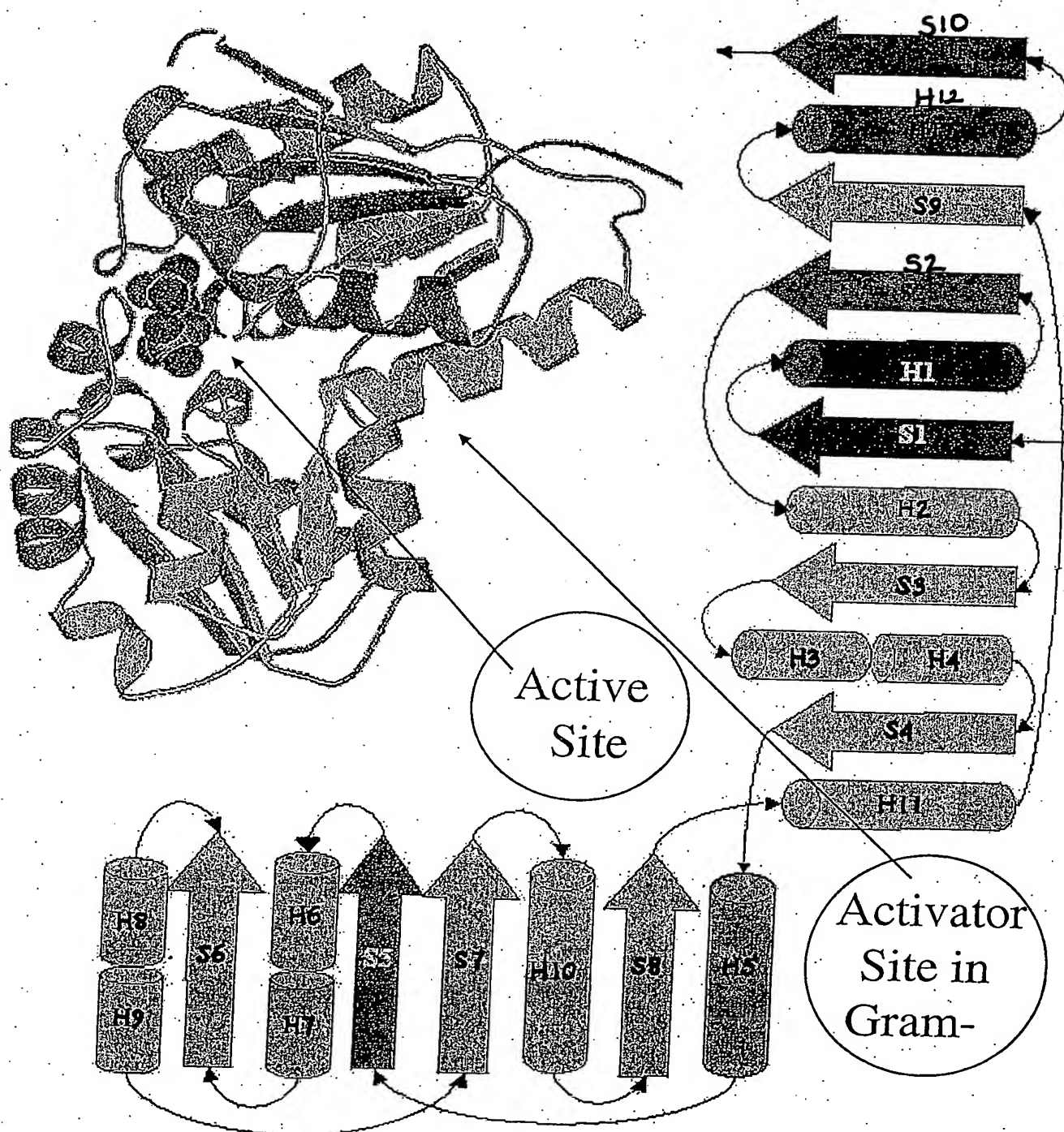
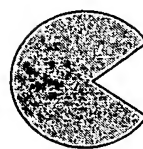


Figure 1B



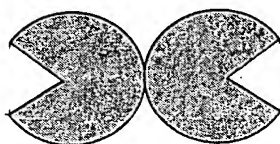
closed form

Figure 1C



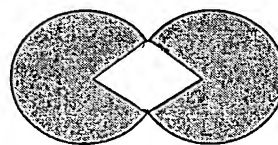
open form

Figure 1D



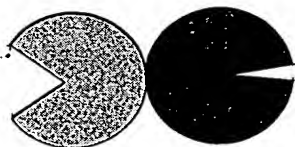
Tail -Tail Dimer

Figure 1E



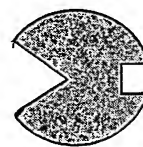
Head - Head Dimer

Figure 1F



Mixed Forms Dimer

Figure 1G



Activator-modulated monomer

Figure 2A

Structural sequence alignments of MurIs																			
S	H	All Mur Is	Mur I- G-	G +	E coli	S. aureus		E. faecalis				E. faecium	H. pylori		A. pyrophilus				
						A chain	B chain	A chain	B chain	A chain	B chain		A chain	B chain	A chain	B chain			

Figure 2B

[illegible]

Figure 2C

[illegible]

Figure 2D

[illegible]

[illegible]

S4	1	1	1	111	V	E	93	V	E	93	V	E	96	V	E	89	I	E	89	I	E	89	V	E
S4	1	1	1	112	V	E	92	I	E	94	V	E	97	I	E	90	V	E	90	V	E	90	F	E
	1	1	1	113	G		93	G	E	95	G		98	G		91	G	E	91	G	E	91	G	E
	1	1	1	114	V		94	V	S	94	V	S	99	V	S	92	V	S	92	V	S	92	V	S
		2	2	115	V		95	I	H	95	I	H	97	I	S	93	I	S	93	I	S	93	I	H
H5		2					96	E	H	96	E	H	98	L	H	94	E	H	94	E	H	94	E	H
H5		2	2	116	P		97	P	H	97	P	H	99	P	H	95	P	H	95	P	H	95	P	H
H5	2	2	2	117	A		98	G	H	98	G	H	100	G	H	96	S	H	96	S	H	96	G	H
H5	2	2	2	118	I	H	99	A	H	99	A	H	101	A	H	97	I	H	97	I	H	97	V	H
	2	2	2	119	K	H	100	R	H	100	R	H	102	R	H	98	L	H	98	L	H	98	K	H
H5	2	2	2	120	P	H	101	T	H	101	T	H	103	A	H	99	A	H	99	A	H	99	E	H
H5		2	2	121	A	H	102	A	H	102	A	H	104	A	H	100	I	H	100	I	H	100	A	H
H5	2	2	2	122	A	H	103	I	H	103	I	H	105	V	H	101	K	H	101	K	H	101	L	H
H5	2	2	2	123	R	H	104	M	H	104	M	H	106	K	H	102	R	H	102	R	H	102	K	H
H5	2		2	124	L	H	105	T	H	105	T	H	107	V	H	103	Q	H	103	Q	H	103	K	H
		2	2	125	T		106	T		106	T		108	T		104	V		104	V		104	S	
		2	2	126	A	S	107	R	S	107	R	S	109	K	S	105	E		105	E		105	R	S
		2	2	127	N	S	108	N	S	108	N	S	110	N	S	106	D		106	D		106	N	S
																107	K	T	107	K	T			
																108	N	T	108	N	T			

Figure 2G

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Figure 2H

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Figure 2N

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Figure 20

S10				I	278	L	E	259	V		259	V	E	262	A		262	A	E	265	V	E						
S10				I	279	E	E	260	E		260	E		263	Q	E	263	Q	E	266	E	E						
				I	280	K	E	261	R	E	261	R		264	Q	E	264	Q	E	267	H	E						
				I	281	L		262	I		262	I		265	I		265	I		268	I							
				I	282	A		263	S		263	S		266	H		266	H		269	E							
				I	283	V		264	V		264	V		267	L		267	L		270	L							
					284	L		265	N		265	N		268	G		268	G		271	G							
					285	G														272	G							
																				273	G							

1 = Domain one
2 = Domain two

E = Strand
H = Hinge
S&T = Loops and Turns

Code for core elements:
 Orange = all Muri's
 Magenta= all - E coli
 Green= Only gram+

Figure 3

Domain/ Species	Ligand	α - α distance active site cysteines	α - α distance between Asp7* and Gly115*	S-S distance for active site cysteines	Dydom angle	Angle as defined by the angle between residue Val215* and ca positions of Asp7* and Gly115*
Disulfide	Empty	4.7 Å		2.0 Å		Not calculated
<i>E. faecalis</i>	D-Glu	7.2 Å	14.7 Å	7.5 Å	11°	50.2°
<i>E. faecalis</i>	L-Glu	6.8 Å	14.1 Å	6.9 Å	0°	45.9°
<i>E. coli</i>	L-Glu	7.0 Å	14.9 Å	7.6 Å		45.5°
<i>H. pylori</i>	D-Glu	7.0 Å	14.7 Å	7.5 Å		45.2°
<i>S. aureus</i>	D-Glu	7.0 Å	14.8 Å	7.3 Å		45.5°
<i>E. faecium</i>	Citrate	7.5 Å	15.6 Å	9.1 Å		53.3°
<i>E. faecium</i>	Tartrate	8.7 Å	15.8 Å	10.1 Å		53.7°
<i>E. faecium</i>	Phosphate	8.2 Å	16.0 Å	10.4 Å	18 (model)	54.2°
<i>A. pyrophilus</i>	empty	9.4 Å	15.5 Å	11.3 Å		51.6°

**H. pylori* residue numbers

Figure 4A

REMARK Created by MOLEMAN V. 991230/7.3 at Tue Dec 10 19:34:52 2002 for kemiti
REMARK MoleMan PDB file
REMARK Created by MOLEMAN V. 961218/7.2.5 at Tue Mar 28 15:09:11 2000 for kemiti
REMARK MoleMan PDB file
REMARK coordinates from restrained individual B-factor refinement
REMARK refinement resolution: 500.0 - 1.86 Å
REMARK starting $r = 0.2208$ free $r = 0.2457$
REMARK final $r = 0.2055$ free $r = 0.2376$
REMARK B rmsd for bonded mainchain atoms= 1.483 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 2.506 target= 2.0
REMARK B rmsd for angle mainchain atoms= 2.042 target= 2.0
REMARK B rmsd for angle sidechain atoms= 3.617 target= 2.5
REMARK wa= 1.64705
REMARK rweight=6.377507E-02
REMARK target= mlf steps= 50
REMARK sg= P2(1)2(1)2(1) a= 61.41 b= 76.31 c= 108.92 alpha= 90 beta= 90 gamma= 90
REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3 : inh.par
REMARK parameter file 4 : gld.par
REMARK molecular structure file: generate_easy.psf
REMARK input coordinates: bgroup.pdb
REMARK reflection file= muri_1.8.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.86
REMARK initial B-factor correction applied to fobs :
REMARK B11= 0.497 B22= 1.667 B33= -2.164
REMARK B12= 0.000 B13= 0.000 B23= 0.000
REMARK B-factor correction applied to coordinate array B: 1.176
REMARK bulk solvent: (Mask) density level= 0.365438 e/Å³, B-factor= 33.2255 Å²
REMARK reflections with $|F_{obs}|/\sigma_F < 0.0$ rejected
REMARK reflections with $|F_{obs}| > 10000 * rms(F_{obs})$ rejected
REMARK theoretical total number of refl. in resol. range: 43743 (100.0 %)
REMARK number of unobserved reflections (no entry or $|F|=0$): 3410 (7.8 %)
REMARK number of reflections rejected: 0 (0.0 %)
REMARK total number of reflections used: 40333 (92.2 %)
REMARK number of reflections in working set: 38313 (87.6 %)
REMARK number of reflections in test set: 2020 (4.6 %)
REMARK FILENAME="bindividual.pdb"
REMARK DATE:Mar-24-2000 16:16:02 created by user: kemiti
REMARK Written by CNX VERSION:2000
CRYST1 61.410 76.310 108.920 90.00 90.00 90.00 P212121 1
ORIGX1 1.000000 0.000000 0.000000 0.000000
ORIGX2 0.000000 1.000000 0.000000 0.000000
ORIGX3 0.000000 0.000000 1.000000 0.000000
SCALE1 0.016284 0.000000 0.000000 0.000000
SCALE2 0.000000 0.013104 0.000000 0.000000
SCALE3 0.000000 0.000000 0.009181 0.000000
ATOM 1 CB MET A 1 30.124 48.907 56.585 1.00 22.42 A C
ATOM 2 CG MET A 1 30.702 50.302 56.333 1.00 25.22 A C
ATOM 3 SD MET A 1 31.489 51.055 57.785 1.00 28.98 A S
ATOM 4 CE MET A 1 32.951 49.983 58.010 1.00 26.14 A C
ATOM 5 C MET A 1 27.890 49.690 57.412 1.00 19.35 A C
ATOM 6 O MET A 1 27.114 49.386 56.503 1.00 20.53 A O
ATOM 7 N MET A 1 28.658 47.421 57.925 1.00 18.28 A N
ATOM 8 CA MET A 1 29.106 48.829 57.729 1.00 20.61 A C
ATOM 9 N LYS A 2 27.729 50.760 58.178 1.00 18.84 A N
ATOM 10 CA LYS A 2 26.605 51.666 58.005 1.00 19.29 A C

Figure 4B

ATOM	11	CB	LYS A	2	25.834	51.769	59.316	1.00	18.82	A	C
ATOM	12	CG	LYS A	2	24.636	52.702	59.295	1.00	20.09	A	C
ATOM	13	CD	LYS A	2	24.005	52.752	60.674	1.00	22.85	A	C
ATOM	14	CE	LYS A	2	22.697	53.523	60.676	1.00	22.98	A	C
ATOM	15	NZ	LYS A	2	22.078	53.501	62.033	1.00	22.51	A	N
ATOM	16	C	LYS A	2	27.131	53.031	57.588	1.00	17.25	A	C
ATOM	17	O	LYS A	2	27.980	53.616	58.265	1.00	16.44	A	O
ATOM	18	N	ILE A	3	26.630	53.533	56.464	1.00	17.70	A	N
ATOM	19	CA	ILE A	3	27.075	54.824	55.968	1.00	14.65	A	C
ATOM	20	CB	ILE A	3	28.001	54.647	54.738	1.00	16.82	A	C
ATOM	21	CG2	ILE A	3	29.214	53.807	55.121	1.00	17.12	A	C
ATOM	22	CG1	ILE A	3	27.252	53.971	53.593	1.00	17.27	A	C
ATOM	23	CD1	ILE A	3	26.697	54.929	52.583	1.00	20.09	A	C
ATOM	24	C	ILE A	3	25.925	55.758	55.617	1.00	14.64	A	C
ATOM	25	O	ILE A	3	24.752	55.377	55.639	1.00	14.39	A	O
ATOM	26	N	GLY A	4	26.269	57.001	55.322	1.00	13.89	A	N
ATOM	27	CA	GLY A	4	25.244	57.956	54.961	1.00	14.96	A	C
ATOM	28	C	GLY A	4	25.500	58.490	53.569	1.00	13.26	A	C
ATOM	29	O	GLY A	4	26.634	58.453	53.081	1.00	11.89	A	O
ATOM	30	N	VAL A	5	24.439	58.954	52.917	1.00	11.22	A	N
ATOM	31	CA	VAL A	5	24.549	59.541	51.592	1.00	10.79	A	C
ATOM	32	CB	VAL A	5	23.964	58.625	50.500	1.00	14.07	A	C
ATOM	33	CG1	VAL A	5	23.918	59.363	49.169	1.00	12.77	A	C
ATOM	34	CG2	VAL A	5	24.828	57.385	50.352	1.00	12.02	A	C
ATOM	35	C	VAL A	5	23.771	60.848	51.643	1.00	11.63	A	C
ATOM	36	O	VAL A	5	22.596	60.872	52.020	1.00	12.22	A	O
ATOM	37	N	PHE A	6	24.445	61.932	51.287	1.00	11.51	A	N
ATOM	38	CA	PHE A	6	23.848	63.256	51.302	1.00	13.29	A	C
ATOM	39	CB	PHE A	6	24.674	64.182	52.203	1.00	13.43	A	C
ATOM	40	CG	PHE A	6	24.252	65.620	52.143	1.00	14.85	A	C
ATOM	41	CD1	PHE A	6	22.937	65.981	52.418	1.00	16.29	A	C
ATOM	42	CD2	PHE A	6	25.164	66.612	51.800	1.00	15.26	A	C
ATOM	43	CE1	PHE A	6	22.530	67.317	52.350	1.00	17.43	A	C
ATOM	44	CE2	PHE A	6	24.770	67.954	51.728	1.00	17.55	A	C
ATOM	45	CZ	PHE A	6	23.450	68.305	52.003	1.00	18.07	A	C
ATOM	46	C	PHE A	6	23.725	63.887	49.920	1.00	12.87	A	C
ATOM	47	O	PHE A	6	24.641	63.806	49.102	1.00	14.09	A	O
ATOM	48	N	ASP A	7	22.583	64.519	49.674	1.00	11.45	A	N
ATOM	49	CA	ASP A	7	22.331	65.212	48.418	1.00	12.53	A	C
ATOM	50	CB	ASP A	7	21.749	64.263	47.363	1.00	11.52	A	C
ATOM	51	CG	ASP A	7	21.491	64.959	46.035	1.00	10.71	A	C
ATOM	52	OD1	ASP A	7	22.444	65.525	45.457	1.00	12.13	A	O
ATOM	53	OD2	ASP A	7	20.332	64.944	45.571	1.00	11.62	A	O
ATOM	54	C	ASP A	7	21.353	66.350	48.670	1.00	10.34	A	C
ATOM	55	O	ASP A	7	20.714	66.410	49.716	1.00	12.06	A	O
ATOM	56	N	SER A	8	21.245	67.262	47.713	1.00	12.07	A	N
ATOM	57	CA	SER A	8	20.330	68.387	47.856	1.00	12.93	A	C
ATOM	58	CB	SER A	8	20.595	69.417	46.756	1.00	12.10	A	C
ATOM	59	OG	SER A	8	20.364	68.857	45.474	1.00	10.24	A	O
ATOM	60	C	SER A	8	18.874	67.909	47.783	1.00	13.34	A	C
ATOM	61	O	SER A	8	17.957	68.609	48.217	1.00	14.16	A	O
ATOM	62	N	GLY A	9	18.667	66.709	47.250	1.00	13.06	A	N
ATOM	63	CA	GLY A	9	17.319	66.182	47.143	1.00	12.56	A	C
ATOM	64	C	GLY A	9	17.253	64.728	46.721	1.00	13.45	A	C
ATOM	65	O	GLY A	9	17.886	63.861	47.329	1.00	13.56	A	O
ATOM	66	N	VAL A	10	16.484	64.460	45.671	1.00	12.87	A	N
ATOM	67	CA	VAL A	10	16.323	63.104	45.159	1.00	12.62	A	C
ATOM	68	CB	VAL A	10	14.916	62.935	44.552	1.00	12.47	A	C

Figure 4C

ATOM	69	CG1 VAL A 10	14.715	63.955	43.453	1.00	11.29	A	C
ATOM	70	CG2 VAL A 10	14.720	61.521	44.031	1.00	12.71	A	C
ATOM	71	C VAL A 10	17.372	62.785	44.095	1.00	12.55	A	C
ATOM	72	O VAL A 10	17.586	61.624	43.749	1.00	11.19	A	O
ATOM	73	N GLY A 11	18.020	63.823	43.575	1.00	12.78	A	N
ATOM	74	CA GLY A 11	19.032	63.623	42.548	1.00	10.57	A	C
ATOM	75	C GLY A 11	20.039	62.536	42.884	1.00	12.63	A	C
ATOM	76	O GLY A 11	20.376	61.696	42.035	1.00	12.33	A	O
ATOM	77	N GLY A 12	20.514	62.560	44.126	1.00	12.27	A	N
ATOM	78	CA GLY A 12	21.488	61.589	44.597	1.00	13.34	A	C
ATOM	79	C GLY A 12	21.125	60.142	44.331	1.00	12.55	A	C
ATOM	80	O GLY A 12	21.963	59.252	44.496	1.00	12.07	A	O
ATOM	81	N PHE A 13	19.877	59.894	43.938	1.00	11.81	A	N
ATOM	82	CA PHE A 13	19.447	58.534	43.619	1.00	12.39	A	C
ATOM	83	CB PHE A 13	18.009	58.515	43.081	1.00	13.67	A	C
ATOM	84	CG PHE A 13	16.947	58.401	44.148	1.00	13.33	A	C
ATOM	85	CD1 PHE A 13	15.671	57.955	43.816	1.00	14.75	A	C
ATOM	86	CD2 PHE A 13	17.215	58.740	45.470	1.00	13.91	A	C
ATOM	87	CE1 PHE A 13	14.667	57.846	44.790	1.00	18.10	A	C
ATOM	88	CE2 PHE A 13	16.221	58.635	46.454	1.00	15.28	A	C
ATOM	89	CZ PHE A 13	14.943	58.186	46.112	1.00	13.91	A	C
ATOM	90	C PHE A 13	20.361	57.940	42.547	1.00	13.92	A	C
ATOM	91	O PHE A 13	20.630	56.737	42.551	1.00	12.12	A	O
ATOM	92	N SER A 14	20.827	58.781	41.625	1.00	13.26	A	N
ATOM	93	CA SER A 14	21.690	58.304	40.547	1.00	13.42	A	C
ATOM	94	CB SER A 14	21.967	59.423	39.525	1.00	13.96	A	C
ATOM	95	OG SER A 14	22.695	60.504	40.071	1.00	12.20	A	O
ATOM	96	C SER A 14	22.992	57.730	41.092	1.00	13.28	A	C
ATOM	97	O SER A 14	23.559	56.805	40.509	1.00	14.54	A	O
ATOM	98	N VAL A 15	23.458	58.270	42.214	1.00	10.88	A	N
ATOM	99	CA VAL A 15	24.674	57.777	42.846	1.00	11.83	A	C
ATOM	100	CB VAL A 15	25.338	58.859	43.730	1.00	11.43	A	C
ATOM	101	CG1 VAL A 15	26.452	58.243	44.580	1.00	10.44	A	C
ATOM	102	CG2 VAL A 15	25.909	59.960	42.849	1.00	11.65	A	C
ATOM	103	C VAL A 15	24.333	56.566	43.709	1.00	13.82	A	C
ATOM	104	O VAL A 15	25.068	55.579	43.727	1.00	13.72	A	O
ATOM	105	N LEU A 16	23.199	56.635	44.400	1.00	13.39	A	N
ATOM	106	CA LEU A 16	22.767	55.546	45.264	1.00	14.00	A	C
ATOM	107	CB LEU A 16	21.479	55.937	45.993	1.00	11.47	A	C
ATOM	108	CG LEU A 16	20.947	54.898	46.991	1.00	14.59	A	C
ATOM	109	CD1 LEU A 16	22.049	54.511	47.980	1.00	13.56	A	C
ATOM	110	CD2 LEU A 16	19.743	55.477	47.733	1.00	10.24	A	C
ATOM	111	C LEU A 16	22.562	54.246	44.486	1.00	14.34	A	C
ATOM	112	O LEU A 16	22.879	53.162	44.980	1.00	13.30	A	O
ATOM	113	N LYS A 17	22.044	54.356	43.267	1.00	14.05	A	N
ATOM	114	CA LYS A 17	21.822	53.176	42.438	1.00	16.52	A	C
ATOM	115	CB LYS A 17	21.229	53.584	41.087	1.00	16.99	A	C
ATOM	116	CG LYS A 17	21.051	52.424	40.114	1.00	21.73	A	C
ATOM	117	CD LYS A 17	20.461	52.893	38.802	1.00	24.05	A	C
ATOM	118	CE LYS A 17	20.298	51.729	37.833	1.00	27.52	A	C
ATOM	119	NZ LYS A 17	19.805	52.178	36.505	1.00	24.97	A	N
ATOM	120	C LYS A 17	23.136	52.423	42.220	1.00	17.90	A	C
ATOM	121	O LYS A 17	23.194	51.193	42.319	1.00	16.07	A	O
ATOM	122	N SER A 18	24.193	53.171	41.931	1.00	16.04	A	N
ATOM	123	CA SER A 18	25.508	52.582	41.691	1.00	17.22	A	C
ATOM	124	CB SER A 18	26.494	53.663	41.248	1.00	16.33	A	C
ATOM	125	OG SER A 18	26.080	54.255	40.034	1.00	15.13	A	O
ATOM	126	C SER A 18	26.033	51.900	42.944	1.00	16.33	A	C

Figure 4D

ATOM	127	O	SER A 18	26.579	50.795	42.885	1.00	14.32	A	O
ATOM	128	N	LEU A 19	25.863	52.577	44.075	1.00	13.38	A	N
ATOM	129	CA	LEU A 19	26.301	52.072	45.367	1.00	14.03	A	C
ATOM	130	CB	LEU A 19	26.009	53.102	46.456	1.00	11.70	A	C
ATOM	131	CG	LEU A 19	26.748	54.435	46.350	1.00	12.66	A	C
ATOM	132	CD1	LEU A 19	26.284	55.365	47.471	1.00	13.24	A	C
ATOM	133	CD2	LEU A 19	28.248	54.185	46.442	1.00	11.34	A	C
ATOM	134	C	LEU A 19	25.605	50.771	45.720	1.00	15.80	A	C
ATOM	135	O	LEU A 19	26.240	49.831	46.195	1.00	14.57	A	O
ATOM	136	N	LEU A 20	24.294	50.727	45.496	1.00	15.82	A	N
ATOM	137	CA	LEU A 20	23.510	49.540	45.793	1.00	18.19	A	C
ATOM	138	CB	LEU A 20	22.026	49.807	45.515	1.00	16.40	A	C
ATOM	139	CG	LEU A 20	21.346	50.798	46.473	1.00	16.62	A	C
ATOM	140	CD1	LEU A 20	19.949	51.156	45.974	1.00	16.53	A	C
ATOM	141	CD2	LEU A 20	21.279	50.176	47.867	1.00	16.65	A	C
ATOM	142	C	LEU A 20	23.983	48.330	44.988	1.00	20.92	A	C
ATOM	143	O	LEU A 20	24.179	47.247	45.538	1.00	20.94	A	O
ATOM	144	N	LYS A 21	24.169	48.511	43.687	1.00	20.60	A	N
ATOM	145	CA	LYS A 21	24.612	47.406	42.847	1.00	22.68	A	C
ATOM	146	CB	LYS A 21	24.656	47.840	41.380	1.00	21.65	A	C
ATOM	147	CG	LYS A 21	24.973	46.699	40.426	1.00	26.15	A	C
ATOM	148	CD	LYS A 21	25.083	47.169	38.988	1.00	29.67	A	C
ATOM	149	CE	LYS A 21	25.506	46.017	38.078	1.00	34.31	A	C
ATOM	150	NZ	LYS A 21	25.776	46.469	36.684	1.00	32.80	A	N
ATOM	151	C	LYS A 21	25.978	46.863	43.263	1.00	21.58	A	C
ATOM	152	O	LYS A 21	26.214	45.654	43.208	1.00	23.12	A	O
ATOM	153	N	ALA A 22	26.868	47.753	43.692	1.00	19.68	A	N
ATOM	154	CA	ALA A 22	28.216	47.360	44.093	1.00	19.96	A	C
ATOM	155	CB	ALA A 22	29.131	48.585	44.080	1.00	14.81	A	C
ATOM	156	C	ALA A 22	28.317	46.635	45.446	1.00	20.35	A	C
ATOM	157	O	ALA A 22	29.402	46.199	45.839	1.00	21.92	A	O
ATOM	158	N	ARG A 23	27.198	46.509	46.154	1.00	20.50	A	N
ATOM	159	CA	ARG A 23	27.187	45.821	47.444	1.00	21.19	A	C
ATOM	160	CB	ARG A 23	27.205	44.307	47.230	1.00	23.64	A	C
ATOM	161	CG	ARG A 23	25.965	43.756	46.553	1.00	24.47	A	C
ATOM	162	CD	ARG A 23	26.093	42.252	46.372	1.00	30.28	A	C
ATOM	163	NE	ARG A 23	26.418	41.582	47.630	1.00	30.56	A	N
ATOM	164	CZ	ARG A 23	26.768	40.302	47.727	1.00	32.70	A	C
ATOM	165	NH1	ARG A 23	26.838	39.549	46.636	1.00	32.50	A	N
ATOM	166	NH2	ARG A 23	27.054	39.776	48.914	1.00	28.66	A	N
ATOM	167	C	ARG A 23	28.379	46.216	48.302	1.00	21.73	A	C
ATOM	168	O	ARG A 23	29.149	45.365	48.759	1.00	20.27	A	O
ATOM	169	N	LEU A 24	28.522	47.512	48.527	1.00	17.52	A	N
ATOM	170	CA	LEU A 24	29.624	48.018	49.317	1.00	21.03	A	C
ATOM	171	CB	LEU A 24	30.080	49.366	48.757	1.00	20.25	A	C
ATOM	172	CG	LEU A 24	30.478	49.366	47.282	1.00	22.97	A	C
ATOM	173	CD1	LEU A 24	30.723	50.797	46.810	1.00	22.12	A	C
ATOM	174	CD2	LEU A 24	31.723	48.510	47.094	1.00	21.35	A	C
ATOM	175	C	LEU A 24	29.239	48.184	50.776	1.00	21.90	A	C
ATOM	176	O	LEU A 24	30.079	48.032	51.663	1.00	23.97	A	O
ATOM	177	N	PHE A 25	27.968	48.483	51.028	1.00	20.73	A	N
ATOM	178	CA	PHE A 25	27.517	48.710	52.396	1.00	21.16	A	C
ATOM	179	CB	PHE A 25	27.290	50.207	52.609	1.00	19.75	A	C
ATOM	180	CG	PHE A 25	28.416	51.062	52.101	1.00	19.70	A	C
ATOM	181	CD1	PHE A 25	28.249	51.854	50.967	1.00	20.65	A	C
ATOM	182	CD2	PHE A 25	29.648	51.065	52.748	1.00	19.59	A	C
ATOM	183	CE1	PHE A 25	29.294	52.641	50.483	1.00	20.02	A	C
ATOM	184	CE2	PHE A 25	30.701	51.846	52.276	1.00	20.92	A	C

Figure 4E

ATOM	185	CZ	PHE	A	25	30.522	52.639	51.137	1.00	19.72	A	C
ATOM	186	C	PHE	A	25	26.259	47.940	52.773	1.00	18.19	A	C
ATOM	187	O	PHE	A	25	25.387	47.718	51.945	1.00	20.08	A	O
ATOM	188	N	ASP	A	26	26.174	47.562	54.044	1.00	19.15	A	N
ATOM	189	CA	ASP	A	26	25.049	46.793	54.569	1.00	19.40	A	C
ATOM	190	CB	ASP	A	26	25.524	45.978	55.768	1.00	21.39	A	C
ATOM	191	CG	ASP	A	26	26.764	45.166	55.455	1.00	23.64	A	C
ATOM	192	OD1	ASP	A	26	26.632	44.118	54.794	1.00	23.32	A	O
ATOM	193	OD2	ASP	A	26	27.875	45.587	55.852	1.00	28.55	A	O
ATOM	194	C	ASP	A	26	23.864	47.662	54.978	1.00	18.82	A	C
ATOM	195	O	ASP	A	26	22.727	47.196	55.034	1.00	19.35	A	O
ATOM	196	N	GLU	A	27	24.132	48.926	55.273	1.00	17.90	A	N
ATOM	197	CA	GLU	A	27	23.067	49.840	55.671	1.00	17.07	A	C
ATOM	198	CB	GLU	A	27	22.892	49.826	57.187	1.00	17.71	A	C
ATOM	199	CG	GLU	A	27	21.646	50.550	57.663	1.00	24.75	A	C
ATOM	200	CD	GLU	A	27	21.322	50.279	59.127	1.00	28.18	A	C
ATOM	201	OE1	GLU	A	27	20.326	50.846	59.620	1.00	31.23	A	O
ATOM	202	OE2	GLU	A	27	22.054	49.500	59.782	1.00	27.47	A	O
ATOM	203	C	GLU	A	27	23.393	51.246	55.197	1.00	16.15	A	C
ATOM	204	O	GLU	A	27	24.524	51.723	55.346	1.00	14.85	A	O
ATOM	205	N	ILE	A	28	22.393	51.910	54.633	1.00	14.40	A	N
ATOM	206	CA	ILE	A	28	22.577	53.257	54.118	1.00	12.75	A	C
ATOM	207	CB	ILE	A	28	22.574	53.257	52.582	1.00	13.36	A	C
ATOM	208	CG2	ILE	A	28	22.678	54.689	52.056	1.00	9.46	A	C
ATOM	209	CG1	ILE	A	28	23.736	52.409	52.059	1.00	12.29	A	C
ATOM	210	CD1	ILE	A	28	23.699	52.211	50.552	1.00	16.70	A	C
ATOM	211	C	ILE	A	28	21.477	54.193	54.592	1.00	13.60	A	C
ATOM	212	O	ILE	A	28	20.296	53.854	54.545	1.00	13.62	A	O
ATOM	213	N	ILE	A	29	21.879	55.367	55.059	1.00	12.74	A	N
ATOM	214	CA	ILE	A	29	20.928	56.375	55.507	1.00	14.14	A	C
ATOM	215	CB	ILE	A	29	21.293	56.944	56.893	1.00	13.73	A	C
ATOM	216	CG2	ILE	A	29	20.241	57.957	57.324	1.00	15.30	A	C
ATOM	217	CG1	ILE	A	29	21.398	55.814	57.929	1.00	15.05	A	C
ATOM	218	CD1	ILE	A	29	20.107	55.035	58.145	1.00	14.22	A	C
ATOM	219	C	ILE	A	29	21.039	57.489	54.472	1.00	14.66	A	C
ATOM	220	O	ILE	A	29	22.056	58.183	54.404	1.00	13.06	A	O
ATOM	221	N	TYR	A	30	20.007	57.629	53.648	1.00	12.88	A	N
ATOM	222	CA	TYR	A	30	19.987	58.649	52.609	1.00	14.23	A	C
ATOM	223	CB	TYR	A	30	19.221	58.133	51.389	1.00	12.46	A	C
ATOM	224	CG	TYR	A	30	19.221	59.075	50.205	1.00	15.02	A	C
ATOM	225	CD1	TYR	A	30	20.155	58.933	49.178	1.00	12.86	A	C
ATOM	226	CE1	TYR	A	30	20.171	59.803	48.088	1.00	12.85	A	C
ATOM	227	CD2	TYR	A	30	18.298	60.119	50.117	1.00	15.96	A	C
ATOM	228	CE2	TYR	A	30	18.304	60.996	49.034	1.00	15.05	A	C
ATOM	229	CZ	TYR	A	30	19.243	60.831	48.023	1.00	14.12	A	C
ATOM	230	OH	TYR	A	30	19.248	61.681	46.948	1.00	11.65	A	O
ATOM	231	C	TYR	A	30	19.293	59.902	53.139	1.00	15.46	A	C
ATOM	232	O	TYR	A	30	18.211	59.815	53.725	1.00	14.07	A	O
ATOM	233	N	TYR	A	31	19.909	61.062	52.934	1.00	14.03	A	N
ATOM	234	CA	TYR	A	31	19.297	62.312	53.370	1.00	14.37	A	C
ATOM	235	CB	TYR	A	31	20.007	62.882	54.601	1.00	13.42	A	C
ATOM	236	CG	TYR	A	31	19.441	64.216	55.045	1.00	13.73	A	C
ATOM	237	CD1	TYR	A	31	18.150	64.307	55.559	1.00	15.42	A	C
ATOM	238	CE1	TYR	A	31	17.616	65.532	55.962	1.00	18.80	A	C
ATOM	239	CD2	TYR	A	31	20.191	65.389	54.940	1.00	15.22	A	C
ATOM	240	CE2	TYR	A	31	19.665	66.625	55.335	1.00	19.27	A	C
ATOM	241	CZ	TYR	A	31	18.376	66.686	55.847	1.00	20.56	A	C
ATOM	242	OH	TYR	A	31	17.840	67.894	56.250	1.00	21.50	A	O

Figure 4F

ATOM	243	C	TYR A 31	19.321	63.355	52.257	1.00	13.94	A	C
ATOM	244	O	TYR A 31	20.383	63.704	51.743	1.00	12.53	A	O
ATOM	245	N	GLY A 32	18.139	63.836	51.876	1.00	14.52	A	N
ATOM	246	CA	GLY A 32	18.052	64.855	50.846	1.00	11.09	A	C
ATOM	247	C	GLY A 32	17.502	66.137	51.445	1.00	14.21	A	C
ATOM	248	O	GLY A 32	16.474	66.105	52.120	1.00	13.16	A	O
ATOM	249	N	ASP A 33	18.178	67.261	51.217	1.00	11.82	A	N
ATOM	250	CA	ASP A 33	17.728	68.550	51.754	1.00	12.90	A	C
ATOM	251	CB	ASP A 33	18.934	69.474	51.926	1.00	11.25	A	C
ATOM	252	CG	ASP A 33	18.576	70.788	52.587	1.00	11.81	A	C
ATOM	253	OD1	ASP A 33	17.562	70.842	53.309	1.00	14.26	A	O
ATOM	254	OD2	ASP A 33	19.326	71.757	52.394	1.00	11.68	A	O
ATOM	255	C	ASP A 33	16.703	69.145	50.783	1.00	13.65	A	C
ATOM	256	O	ASP A 33	16.824	70.285	50.324	1.00	12.95	A	O
ATOM	257	N	SER A 34	15.693	68.333	50.486	1.00	13.72	A	N
ATOM	258	CA	SER A 34	14.630	68.658	49.543	1.00	14.78	A	C
ATOM	259	CB	SER A 34	13.602	67.527	49.539	1.00	13.92	A	C
ATOM	260	OG	SER A 34	14.230	66.294	49.232	1.00	21.22	A	O
ATOM	261	C	SER A 34	13.914	69.980	49.751	1.00	16.62	A	C
ATOM	262	O	SER A 34	13.379	70.554	48.799	1.00	14.31	A	O
ATOM	263	N	ALA A 35	13.889	70.461	50.990	1.00	13.83	A	N
ATOM	264	CA	ALA A 35	13.216	71.717	51.282	1.00	14.72	A	C
ATOM	265	CB	ALA A 35	13.037	71.875	52.790	1.00	12.61	A	C
ATOM	266	C	ALA A 35	13.982	72.908	50.717	1.00	15.06	A	C
ATOM	267	O	ALA A 35	13.417	73.989	50.538	1.00	17.76	A	O
ATOM	268	N	ARG A 36	15.262	72.713	50.420	1.00	15.20	A	N
ATOM	269	CA	ARG A 36	16.076	73.804	49.902	1.00	15.09	A	C
ATOM	270	CB	ARG A 36	17.175	74.128	50.918	1.00	14.65	A	C
ATOM	271	CG	ARG A 36	16.585	74.462	52.284	1.00	13.95	A	C
ATOM	272	CD	ARG A 36	17.602	75.018	53.255	1.00	15.98	A	C
ATOM	273	NE	ARG A 36	18.579	74.020	53.681	1.00	14.55	A	N
ATOM	274	CZ	ARG A 36	19.333	74.141	54.769	1.00	19.35	A	C
ATOM	275	NH1	ARG A 36	19.217	75.221	55.537	1.00	16.64	A	N
ATOM	276	NH2	ARG A 36	20.201	73.187	55.093	1.00	16.02	A	N
ATOM	277	C	ARG A 36	16.668	73.578	48.511	1.00	15.81	A	C
ATOM	278	O	ARG A 36	17.422	74.409	48.002	1.00	15.67	A	O
ATOM	279	N	VAL A 37	16.319	72.461	47.888	1.00	15.48	A	N
ATOM	280	CA	VAL A 37	16.821	72.168	46.552	1.00	13.76	A	C
ATOM	281	CB	VAL A 37	16.374	70.746	46.115	1.00	14.93	A	C
ATOM	282	CG1	VAL A 37	14.877	70.727	45.851	1.00	14.99	A	C
ATOM	283	CG2	VAL A 37	17.174	70.280	44.898	1.00	14.00	A	C
ATOM	284	C	VAL A 37	16.246	73.243	45.617	1.00	11.66	A	C
ATOM	285	O	VAL A 37	15.112	73.697	45.805	1.00	11.22	A	O
ATOM	286	N	PRO A 38	17.011	73.662	44.596	1.00	12.05	A	N
ATOM	287	CD	PRO A 38	16.485	74.565	43.553	1.00	12.17	A	C
ATOM	288	CA	PRO A 38	18.356	73.214	44.244	1.00	13.67	A	C
ATOM	289	CB	PRO A 38	18.368	73.384	42.736	1.00	14.66	A	C
ATOM	290	CG	PRO A 38	17.655	74.698	42.588	1.00	12.08	A	C
ATOM	291	C	PRO A 38	19.486	74.000	44.898	1.00	15.15	A	C
ATOM	292	O	PRO A 38	19.297	75.129	45.370	1.00	12.96	A	O
ATOM	293	N	TYR A 39	20.664	73.382	44.900	1.00	11.07	A	N
ATOM	294	CA	TYR A 39	21.885	73.974	45.442	1.00	13.74	A	C
ATOM	295	CB	TYR A 39	22.796	72.893	46.040	1.00	11.65	A	C
ATOM	296	CG	TYR A 39	22.461	72.394	47.428	1.00	12.17	A	C
ATOM	297	CD1	TYR A 39	21.229	72.663	48.031	1.00	13.42	A	C
ATOM	298	CE1	TYR A 39	20.932	72.177	49.312	1.00	12.82	A	C
ATOM	299	CD2	TYR A 39	23.387	71.625	48.137	1.00	14.92	A	C
ATOM	300	CE2	TYR A 39	23.103	71.137	49.406	1.00	15.33	A	C

Figure 4G

ATOM	301	CZ TYR A 39	21.878	71.414	49.992	1.00	13.34	A	C
ATOM	302	OH TYR A 39	21.624	70.941	51.260	1.00	13.24	A	O
ATOM	303	C TYR A 39	22.654	74.640	44.300	1.00	11.74	A	C
ATOM	304	O TYR A 39	23.323	75.652	44.494	1.00	14.92	A	O
ATOM	305	N GLY A 40	22.551	74.049	43.112	1.00	14.63	A	N
ATOM	306	CA GLY A 40	23.269	74.529	41.939	1.00	12.47	A	C
ATOM	307	C GLY A 40	23.196	75.993	41.544	1.00	14.09	A	C
ATOM	308	O GLY A 40	24.093	76.502	40.871	1.00	12.63	A	O
ATOM	309	N THR A 41	22.141	76.683	41.952	1.00	13.06	A	N
ATOM	310	CA THR A 41	22.001	78.086	41.585	1.00	17.35	A	C
ATOM	311	CB THR A 41	20.552	78.400	41.219	1.00	18.12	A	C
ATOM	312	OG1 THR A 41	19.713	78.078	42.332	1.00	22.00	A	O
ATOM	313	CG2 THR A 41	20.115	77.580	40.009	1.00	22.83	A	C
ATOM	314	C THR A 41	22.416	79.020	42.712	1.00	16.33	A	C
ATOM	315	O THR A 41	22.266	80.240	42.600	1.00	17.71	A	O
ATOM	316	N LYS A 42	22.953	78.460	43.787	1.00	14.75	A	N
ATOM	317	CA LYS A 42	23.331	79.281	44.922	1.00	13.75	A	C
ATOM	318	CB LYS A 42	22.653	78.721	46.174	1.00	14.86	A	C
ATOM	319	CG LYS A 42	21.139	78.899	46.078	1.00	14.53	A	C
ATOM	320	CD LYS A 42	20.342	77.857	46.842	1.00	14.88	A	C
ATOM	321	CE LYS A 42	18.898	77.878	46.349	1.00	13.95	A	C
ATOM	322	NZ LYS A 42	17.995	76.929	47.073	1.00	12.60	A	N
ATOM	323	C LYS A 42	24.824	79.496	45.119	1.00	16.57	A	C
ATOM	324	O LYS A 42	25.647	78.943	44.391	1.00	14.82	A	O
ATOM	325	N ASP A 43	25.157	80.329	46.099	1.00	17.21	A	N
ATOM	326	CA ASP A 43	26.539	80.689	46.390	1.00	19.06	A	C
ATOM	327	CB ASP A 43	26.567	82.117	46.932	1.00	20.48	A	C
ATOM	328	CG ASP A 43	25.808	82.245	48.228	1.00	21.34	A	C
ATOM	329	OD1 ASP A 43	26.458	82.356	49.287	1.00	19.30	A	O
ATOM	330	OD2 ASP A 43	24.557	82.210	48.190	1.00	23.52	A	O
ATOM	331	C ASP A 43	27.260	79.763	47.371	1.00	19.43	A	C
ATOM	332	O ASP A 43	26.634	79.034	48.141	1.00	18.30	A	O
ATOM	333	N PRO A 44	28.604	79.789	47.346	1.00	21.23	A	N
ATOM	334	CD PRO A 44	29.401	80.567	46.377	1.00	20.65	A	C
ATOM	335	CA PRO A 44	29.482	78.984	48.202	1.00	20.54	A	C
ATOM	336	CB PRO A 44	30.866	79.543	47.886	1.00	20.91	A	C
ATOM	337	CG PRO A 44	30.749	79.881	46.440	1.00	20.03	A	C
ATOM	338	C PRO A 44	29.165	79.051	49.691	1.00	21.08	A	C
ATOM	339	O PRO A 44	29.078	78.020	50.362	1.00	22.03	A	O
ATOM	340	N THR A 45	28.999	80.266	50.207	1.00	20.06	A	N
ATOM	341	CA THR A 45	28.707	80.453	51.622	1.00	19.83	A	C
ATOM	342	CB THR A 45	28.523	81.953	51.961	1.00	22.19	A	C
ATOM	343	OG1 THR A 45	29.734	82.659	51.667	1.00	22.93	A	O
ATOM	344	CG2 THR A 45	28.180	82.135	53.429	1.00	21.29	A	C
ATOM	345	C THR A 45	27.453	79.697	52.027	1.00	18.90	A	C
ATOM	346	O THR A 45	27.448	78.950	53.007	1.00	16.82	A	O
ATOM	347	N THR A 46	26.386	79.893	51.263	1.00	17.42	A	N
ATOM	348	CA THR A 46	25.125	79.235	51.546	1.00	17.81	A	C
ATOM	349	CB THR A 46	24.039	79.671	50.542	1.00	16.98	A	C
ATOM	350	OG1 THR A 46	23.835	81.087	50.636	1.00	17.53	A	O
ATOM	351	CG2 THR A 46	22.737	78.971	50.839	1.00	19.05	A	C
ATOM	352	C THR A 46	25.265	77.719	51.484	1.00	17.51	A	C
ATOM	353	O THR A 46	24.766	77.004	52.355	1.00	18.78	A	O
ATOM	354	N ILE A 47	25.945	77.236	50.452	1.00	17.91	A	N
ATOM	355	CA ILE A 47	26.134	75.803	50.265	1.00	20.81	A	C
ATOM	356	CB ILE A 47	26.822	75.513	48.912	1.00	20.52	A	C
ATOM	357	CG2 ILE A 47	26.934	74.002	48.678	1.00	18.34	A	C
ATOM	358	CG1 ILE A 47	26.004	76.143	47.783	1.00	23.35	A	C

Figure 4H

ATOM	359	CD1 ILE A 47	24.523	75.792	47.826	1.00	23.82	A	C
ATOM	360	C ILE A 47	26.935	75.170	51.398	1.00	19.27	A	C
ATOM	361	O ILE A 47	26.568	74.111	51.905	1.00	21.96	A	O
ATOM	362	N LYS A 48	28.018	75.818	51.805	1.00	21.30	A	N
ATOM	363	CA LYS A 48	28.834	75.292	52.890	1.00	20.85	A	C
ATOM	364	CB LYS A 48	30.032	76.203	53.151	1.00	22.83	A	C
ATOM	365	CG LYS A 48	31.094	76.059	52.091	1.00	27.64	A	C
ATOM	366	CD LYS A 48	32.380	76.794	52.444	1.00	31.38	A	C
ATOM	367	CE LYS A 48	32.246	78.287	52.245	1.00	32.58	A	C
ATOM	368	NZ LYS A 48	33.567	78.966	52.404	1.00	35.58	A	N
ATOM	369	C LYS A 48	28.029	75.101	54.163	1.00	21.38	A	C
ATOM	370	O LYS A 48	28.141	74.061	54.814	1.00	20.76	A	O
ATOM	371	N GLN A 49	27.211	76.091	54.520	1.00	19.20	A	N
ATOM	372	CA GLN A 49	26.395	75.963	55.716	1.00	19.40	A	C
ATOM	373	CB GLN A 49	25.619	77.256	56.005	1.00	19.30	A	C
ATOM	374	CG GLN A 49	24.776	77.203	57.286	1.00	22.44	A	C
ATOM	375	CD GLN A 49	25.581	76.812	58.525	1.00	20.73	A	C
ATOM	376	OE1 GLN A 49	26.740	77.192	58.667	1.00	22.79	A	O
ATOM	377	NE2 GLN A 49	24.958	76.068	59.433	1.00	22.60	A	N
ATOM	378	C GLN A 49	25.423	74.803	55.553	1.00	18.14	A	C
ATOM	379	O GLN A 49	25.159	74.074	56.510	1.00	19.87	A	O
ATOM	380	N PHE A 50	24.882	74.631	54.348	1.00	17.65	A	N
ATOM	381	CA PHE A 50	23.960	73.521	54.112	1.00	17.56	A	C
ATOM	382	CB PHE A 50	23.461	73.510	52.659	1.00	17.20	A	C
ATOM	383	CG PHE A 50	22.478	74.604	52.331	1.00	18.53	A	C
ATOM	384	CD1 PHE A 50	21.961	75.433	53.323	1.00	18.95	A	C
ATOM	385	CD2 PHE A 50	22.041	74.780	51.022	1.00	20.21	A	C
ATOM	386	CE1 PHE A 50	21.023	76.418	53.022	1.00	19.32	A	C
ATOM	387	CE2 PHE A 50	21.101	75.763	50.709	1.00	22.48	A	C
ATOM	388	CZ PHE A 50	20.592	76.583	51.716	1.00	21.15	A	C
ATOM	389	C PHE A 50	24.706	72.217	54.401	1.00	15.70	A	C
ATOM	390	O PHE A 50	24.178	71.311	55.048	1.00	15.38	A	O
ATOM	391	N GLY A 51	25.945	72.143	53.922	1.00	18.19	A	N
ATOM	392	CA GLY A 51	26.760	70.959	54.126	1.00	19.41	A	C
ATOM	393	C GLY A 51	27.006	70.667	55.592	1.00	20.96	A	C
ATOM	394	O GLY A 51	26.964	69.514	56.026	1.00	20.04	A	O
ATOM	395	N LEU A 52	27.261	71.716	56.368	1.00	22.33	A	N
ATOM	396	CA LEU A 52	27.508	71.542	57.791	1.00	22.23	A	C
ATOM	397	CB LEU A 52	27.995	72.855	58.412	1.00	24.46	A	C
ATOM	398	CG LEU A 52	29.385	73.328	57.980	1.00	25.92	A	C
ATOM	399	CD1 LEU A 52	29.734	74.618	58.719	1.00	28.98	A	C
ATOM	400	CD2 LEU A 52	30.423	72.249	58.293	1.00	27.40	A	C
ATOM	401	C LEU A 52	26.246	71.063	58.493	1.00	21.84	A	C
ATOM	402	O LEU A 52	26.294	70.180	59.344	1.00	21.12	A	O
ATOM	403	N GLU A 53	25.107	71.635	58.124	1.00	20.72	A	N
ATOM	404	CA GLU A 53	23.852	71.237	58.736	1.00	20.40	A	C
ATOM	405	CB GLU A 53	22.731	72.185	58.294	1.00	21.74	A	C
ATOM	406	CG GLU A 53	22.655	73.438	59.159	1.00	21.95	A	C
ATOM	407	CD GLU A 53	21.839	74.551	58.536	1.00	23.86	A	C
ATOM	408	OE1 GLU A 53	20.797	74.260	57.906	1.00	23.19	A	O
ATOM	409	OE2 GLU A 53	22.238	75.727	58.685	1.00	24.44	A	O
ATOM	410	C GLU A 53	23.514	69.789	58.405	1.00	19.46	A	C
ATOM	411	O GLU A 53	22.813	69.122	59.160	1.00	22.12	A	O
ATOM	412	N ALA A 54	24.022	69.295	57.282	1.00	20.85	A	N
ATOM	413	CA ALA A 54	23.760	67.910	56.905	1.00	18.16	A	C
ATOM	414	CB ALA A 54	24.252	67.647	55.498	1.00	16.88	A	C
ATOM	415	C ALA A 54	24.474	66.997	57.899	1.00	18.85	A	C
ATOM	416	O ALA A 54	23.953	65.944	58.280	1.00	18.10	A	O

Figure 4I

ATOM	417	N	LEU	A	55	25.670	67.408	58.313	1.00	19.45	A	N
ATOM	418	CA	LEU	A	55	26.442	66.639	59.281	1.00	19.66	A	C
ATOM	419	CB	LEU	A	55	27.775	67.329	59.590	1.00	21.26	A	C
ATOM	420	CG	LEU	A	55	28.782	67.408	58.442	1.00	22.31	A	C
ATOM	421	CD1	LEU	A	55	30.070	68.042	58.935	1.00	21.17	A	C
ATOM	422	CD2	LEU	A	55	29.055	66.008	57.898	1.00	22.77	A	C
ATOM	423	C	LEU	A	55	25.626	66.504	60.556	1.00	21.84	A	C
ATOM	424	O	LEU	A	55	25.589	65.437	61.166	1.00	20.58	A	O
ATOM	425	N	ASP	A	56	24.959	67.584	60.953	1.00	21.85	A	N
ATOM	426	CA	ASP	A	56	24.147	67.543	62.157	1.00	22.53	A	C
ATOM	427	CB	ASP	A	56	23.506	68.904	62.437	1.00	25.87	A	C
ATOM	428	CG	ASP	A	56	24.530	69.986	62.715	1.00	29.28	A	C
ATOM	429	OD1	ASP	A	56	25.636	69.651	63.190	1.00	31.33	A	O
ATOM	430	OD2	ASP	A	56	24.226	71.172	62.473	1.00	32.07	A	O
ATOM	431	C	ASP	A	56	23.062	66.492	62.023	1.00	22.75	A	C
ATOM	432	O	ASP	A	56	22.777	65.762	62.974	1.00	22.74	A	O
ATOM	433	N	PHE	A	57	22.459	66.403	60.841	1.00	20.21	A	N
ATOM	434	CA	PHE	A	57	21.404	65.422	60.633	1.00	21.09	A	C
ATOM	435	CB	PHE	A	57	20.831	65.497	59.215	1.00	21.92	A	C
ATOM	436	CG	PHE	A	57	19.915	64.352	58.893	1.00	21.43	A	C
ATOM	437	CD1	PHE	A	57	18.609	64.336	59.370	1.00	22.87	A	C
ATOM	438	CD2	PHE	A	57	20.393	63.233	58.214	1.00	20.64	A	C
ATOM	439	CE1	PHE	A	57	17.792	63.218	59.184	1.00	20.01	A	C
ATOM	440	CE2	PHE	A	57	19.589	62.112	58.024	1.00	21.14	A	C
ATOM	441	CZ	PHE	A	57	18.286	62.104	58.512	1.00	23.52	A	C
ATOM	442	C	PHE	A	57	21.873	63.991	60.864	1.00	18.61	A	C
ATOM	443	O	PHE	A	57	21.148	63.181	61.441	1.00	20.52	A	O
ATOM	444	N	PHE	A	58	23.081	63.679	60.408	1.00	19.51	A	N
ATOM	445	CA	PHE	A	58	23.615	62.324	60.532	1.00	21.64	A	C
ATOM	446	CB	PHE	A	58	24.701	62.097	59.478	1.00	18.15	A	C
ATOM	447	CG	PHE	A	58	24.181	62.018	58.072	1.00	17.07	A	C
ATOM	448	CD1	PHE	A	58	24.380	63.072	57.180	1.00	15.61	A	C
ATOM	449	CD2	PHE	A	58	23.508	60.878	57.628	1.00	16.58	A	C
ATOM	450	CE1	PHE	A	58	23.920	62.993	55.868	1.00	16.17	A	C
ATOM	451	CE2	PHE	A	58	23.044	60.790	56.318	1.00	20.24	A	C
ATOM	452	CZ	PHE	A	58	23.251	61.850	55.436	1.00	14.25	A	C
ATOM	453	C	PHE	A	58	24.164	61.894	61.896	1.00	24.25	A	C
ATOM	454	O	PHE	A	58	24.323	60.697	62.147	1.00	24.91	A	O
ATOM	455	N	LYS	A	59	24.449	62.850	62.774	1.00	26.87	A	N
ATOM	456	CA	LYS	A	59	25.014	62.528	64.087	1.00	28.83	A	C
ATOM	457	CB	LYS	A	59	25.116	63.800	64.931	1.00	31.02	A	C
ATOM	458	CG	LYS	A	59	26.127	64.792	64.374	1.00	33.56	A	C
ATOM	459	CD	LYS	A	59	26.237	66.047	65.221	1.00	37.86	A	C
ATOM	460	CE	LYS	A	59	27.270	67.000	64.632	1.00	38.94	A	C
ATOM	461	NZ	LYS	A	59	27.433	68.240	65.443	1.00	41.75	A	N
ATOM	462	C	LYS	A	59	24.312	61.419	64.879	1.00	28.21	A	C
ATOM	463	O	LYS	A	59	24.973	60.541	65.439	1.00	28.12	A	O
ATOM	464	N	PRO	A	60	22.969	61.437	64.933	1.00	27.85	A	N
ATOM	465	CD	PRO	A	60	22.061	62.472	64.412	1.00	27.44	A	C
ATOM	466	CA	PRO	A	60	22.219	60.409	65.671	1.00	26.21	A	C
ATOM	467	CB	PRO	A	60	20.791	60.962	65.691	1.00	28.29	A	C
ATOM	468	CG	PRO	A	60	20.961	62.446	65.419	1.00	29.74	A	C
ATOM	469	C	PRO	A	60	22.264	59.040	64.994	1.00	25.09	A	C
ATOM	470	O	PRO	A	60	22.116	58.004	65.640	1.00	24.61	A	O
ATOM	471	N	HIS	A	61	22.469	59.045	63.682	1.00	24.30	A	N
ATOM	472	CA	HIS	A	61	22.489	57.815	62.906	1.00	23.28	A	C
ATOM	473	CB	HIS	A	61	22.210	58.148	61.445	1.00	23.75	A	C
ATOM	474	CG	HIS	A	61	20.813	58.616	61.202	1.00	23.81	A	C

Figure 4J

ATOM	475	CD2 HIS A 61	20.307	59.858	61.017	1.00	24.28	A	C
ATOM	476	ND1 HIS A 61	19.738	57.753	61.163	1.00	21.57	A	N
ATOM	477	CE1 HIS A 61	18.631	58.443	60.963	1.00	21.88	A	C
ATOM	478	NE2 HIS A 61	18.948	59.723	60.871	1.00	24.37	A	N
ATOM	479	C HIS A 61	23.754	56.979	63.012	1.00	23.45	A	C
ATOM	480	O HIS A 61	23.812	55.879	62.475	1.00	23.17	A	O
ATOM	481	N GLU A 62	24.752	57.497	63.718	1.00	26.52	A	N
ATOM	482	CA GLU A 62	26.030	56.811	63.892	1.00	27.77	A	C
ATOM	483	CB GLU A 62	25.944	55.818	65.062	1.00	33.97	A	C
ATOM	484	CG GLU A 62	24.861	54.754	64.943	1.00	37.16	A	C
ATOM	485	CD GLU A 62	24.468	54.176	66.292	1.00	40.46	A	C
ATOM	486	OE1 GLU A 62	25.367	53.907	67.117	1.00	41.12	A	O
ATOM	487	OE2 GLU A 62	23.255	53.983	66.525	1.00	42.43	A	O
ATOM	488	C GLU A 62	26.545	56.118	62.626	1.00	26.21	A	C
ATOM	489	O GLU A 62	26.699	54.897	62.579	1.00	26.16	A	O
ATOM	490	N ILE A 63	26.798	56.913	61.591	1.00	22.24	A	N
ATOM	491	CA ILE A 63	27.333	56.385	60.338	1.00	21.10	A	C
ATOM	492	CB ILE A 63	26.904	57.246	59.124	1.00	19.78	A	C
ATOM	493	CG2 ILE A 63	25.416	57.065	58.859	1.00	15.78	A	C
ATOM	494	CG1 ILE A 63	27.224	58.718	59.388	1.00	16.88	A	C
ATOM	495	CD1 ILE A 63	27.000	59.636	58.189	1.00	18.48	A	C
ATOM	496	C ILE A 63	28.853	56.420	60.483	1.00	18.95	A	C
ATOM	497	O ILE A 63	29.385	57.182	61.293	1.00	19.85	A	O
ATOM	498	N GLU A 64	29.553	55.593	59.718	1.00	19.95	A	N
ATOM	499	CA GLU A 64	31.008	55.561	59.804	1.00	19.49	A	C
ATOM	500	CB GLU A 64	31.492	54.118	59.926	1.00	22.43	A	C
ATOM	501	CG GLU A 64	31.139	53.498	61.268	1.00	26.80	A	C
ATOM	502	CD GLU A 64	31.762	52.136	61.452	1.00	29.61	A	C
ATOM	503	OE1 GLU A 64	33.012	52.044	61.421	1.00	31.41	A	O
ATOM	504	OE2 GLU A 64	31.003	51.160	61.623	1.00	29.53	A	O
ATOM	505	C GLU A 64	31.684	56.251	58.630	1.00	17.37	A	C
ATOM	506	O GLU A 64	32.890	56.453	58.631	1.00	16.28	A	O
ATOM	507	N LEU A 65	30.890	56.615	57.632	1.00	18.28	A	N
ATOM	508	CA LEU A 65	31.393	57.308	56.456	1.00	17.15	A	C
ATOM	509	CB LEU A 65	32.035	56.318	55.478	1.00	18.66	A	C
ATOM	510	CG LEU A 65	32.582	56.903	54.169	1.00	21.47	A	C
ATOM	511	CD1 LEU A 65	33.667	55.991	53.603	1.00	23.00	A	C
ATOM	512	CD2 LEU A 65	31.449	57.086	53.167	1.00	22.69	A	C
ATOM	513	C LEU A 65	30.230	58.021	55.786	1.00	16.52	A	C
ATOM	514	O LEU A 65	29.100	57.539	55.813	1.00	14.91	A	O
ATOM	515	N LEU A 66	30.510	59.180	55.204	1.00	14.90	A	N
ATOM	516	CA LEU A 66	29.486	59.946	54.526	1.00	14.23	A	C
ATOM	517	CB LEU A 66	29.264	61.288	55.231	1.00	14.12	A	C
ATOM	518	CG LEU A 66	28.297	62.240	54.514	1.00	14.20	A	C
ATOM	519	CD1 LEU A 66	26.932	61.586	54.415	1.00	14.73	A	C
ATOM	520	CD2 LEU A 66	28.195	63.562	55.262	1.00	13.86	A	C
ATOM	521	C LEU A 66	29.864	60.200	53.077	1.00	14.92	A	C
ATOM	522	O LEU A 66	30.975	60.642	52.773	1.00	14.96	A	O
ATOM	523	N ILE A 67	28.938	59.886	52.181	1.00	13.46	A	N
ATOM	524	CA ILE A 67	29.140	60.124	50.766	1.00	12.96	A	C
ATOM	525	CB ILE A 67	28.641	58.953	49.886	1.00	13.86	A	C
ATOM	526	CG2 ILE A 67	28.617	59.385	48.419	1.00	12.97	A	C
ATOM	527	CG1 ILE A 67	29.541	57.729	50.066	1.00	14.37	A	C
ATOM	528	CD1 ILE A 67	29.105	56.530	49.237	1.00	18.27	A	C
ATOM	529	C ILE A 67	28.314	61.346	50.406	1.00	12.36	A	C
ATOM	530	O ILE A 67	27.116	61.420	50.719	1.00	13.82	A	O
ATOM	531	N VAL A 68	28.964	62.317	49.780	1.00	12.37	A	N
ATOM	532	CA VAL A 68	28.275	63.516	49.342	1.00	12.34	A	C

Figure 4K

ATOM	533	CB VAL A 68	29.160	64.759	49.466	1.00	10.71	A	C
ATOM	534	CG1 VAL A 68	28.413	65.977	48.916	1.00	10.16	A	C
ATOM	535	CG2 VAL A 68	29.525	64.978	50.927	1.00	11.52	A	C
ATOM	536	C VAL A 68	28.002	63.222	47.884	1.00	11.20	A	C
ATOM	537	O VAL A 68	28.885	63.362	47.038	1.00	12.44	A	O
ATOM	538	N ALA A 69	26.785	62.775	47.602	1.00	9.18	A	N
ATOM	539	CA ALA A 69	26.405	62.415	46.244	1.00	10.89	A	C
ATOM	540	CB ALA A 69	25.129	61.581	46.263	1.00	9.29	A	C
ATOM	541	C ALA A 69	26.218	63.631	45.358	1.00	10.34	A	C
ATOM	542	O ALA A 69	26.341	63.546	44.139	1.00	11.20	A	O
ATOM	543	N CYS A 70	25.905	64.760	45.982	1.00	10.65	A	N
ATOM	544	CA CYS A 70	25.692	66.000	45.253	1.00	11.99	A	C
ATOM	545	CB CYS A 70	25.026	67.030	46.167	1.00	13.56	A	C
ATOM	546	SG CYS A 70	24.697	68.605	45.370	1.00	10.79	A	S
ATOM	547	C CYS A 70	27.004	66.560	44.720	1.00	11.25	A	C
ATOM	548	O CYS A 70	27.981	66.708	45.463	1.00	9.23	A	O
ATOM	549	N ASN A 71	27.030	66.867	43.425	1.00	10.81	A	N
ATOM	550	CA ASN A 71	28.228	67.424	42.807	1.00	9.85	A	C
ATOM	551	CB ASN A 71	28.120	67.369	41.285	1.00	7.25	A	C
ATOM	552	CG ASN A 71	28.026	65.959	40.768	1.00	9.24	A	C
ATOM	553	OD1 ASN A 71	26.998	65.298	40.919	1.00	8.82	A	O
ATOM	554	ND2 ASN A 71	29.107	65.478	40.165	1.00	9.13	A	N
ATOM	555	C ASN A 71	28.434	68.866	43.246	1.00	12.09	A	C
ATOM	556	O ASN A 71	29.565	69.321	43.432	1.00	9.50	A	O
ATOM	557	N THR A 72	27.337	69.593	43.399	1.00	10.94	A	N
ATOM	558	CA THR A 72	27.436	70.975	43.834	1.00	10.39	A	C
ATOM	559	CB THR A 72	26.073	71.676	43.779	1.00	9.07	A	C
ATOM	560	OG1 THR A 72	25.599	71.675	42.429	1.00	10.15	A	O
ATOM	561	CG2 THR A 72	26.200	73.122	44.262	1.00	9.53	A	C
ATOM	562	C THR A 72	27.974	71.029	45.259	1.00	11.47	A	C
ATOM	563	O THR A 72	28.882	71.808	45.556	1.00	9.49	A	O
ATOM	564	N ALA A 73	27.415	70.202	46.144	1.00	13.67	A	N
ATOM	565	CA ALA A 73	27.871	70.171	47.531	1.00	13.27	A	C
ATOM	566	CB ALA A 73	26.979	69.251	48.368	1.00	15.12	A	C
ATOM	567	C ALA A 73	29.318	69.691	47.586	1.00	15.74	A	C
ATOM	568	O ALA A 73	30.111	70.160	48.412	1.00	15.99	A	O
ATOM	569	N SER A 74	29.660	68.746	46.714	1.00	13.48	A	N
ATOM	570	CA SER A 74	31.021	68.226	46.677	1.00	13.55	A	C
ATOM	571	CB SER A 74	31.133	67.078	45.666	1.00	10.32	A	C
ATOM	572	OG SER A 74	30.483	65.916	46.148	1.00	14.22	A	O
ATOM	573	C SER A 74	31.994	69.333	46.297	1.00	15.60	A	C
ATOM	574	O SER A 74	33.093	69.439	46.845	1.00	14.18	A	O
ATOM	575	N ALA A 75	31.578	70.169	45.359	1.00	13.93	A	N
ATOM	576	CA ALA A 75	32.422	71.259	44.899	1.00	15.79	A	C
ATOM	577	CB ALA A 75	31.899	71.773	43.560	1.00	16.15	A	C
ATOM	578	C ALA A 75	32.549	72.420	45.886	1.00	17.44	A	C
ATOM	579	O ALA A 75	33.639	72.967	46.063	1.00	18.83	A	O
ATOM	580	N LEU A 76	31.453	72.777	46.548	1.00	15.33	A	N
ATOM	581	CA LEU A 76	31.462	73.920	47.460	1.00	17.71	A	C
ATOM	582	CB LEU A 76	30.236	74.793	47.189	1.00	16.64	A	C
ATOM	583	CG LEU A 76	30.154	75.642	45.917	1.00	19.98	A	C
ATOM	584	CD1 LEU A 76	30.338	74.793	44.681	1.00	15.78	A	C
ATOM	585	CD2 LEU A 76	28.801	76.343	45.886	1.00	19.48	A	C
ATOM	586	C LEU A 76	31.544	73.693	48.967	1.00	18.84	A	C
ATOM	587	O LEU A 76	32.101	74.531	49.685	1.00	17.49	A	O
ATOM	588	N ALA A 77	30.996	72.584	49.456	1.00	16.91	A	N
ATOM	589	CA ALA A 77	30.986	72.338	50.896	1.00	17.45	A	C
ATOM	590	CB ALA A 77	29.546	72.118	51.363	1.00	15.97	A	C

Figure 4L

ATOM	591	C	ALA	A	77	31.862	71.206	51.422	1.00	17.05	A	C
ATOM	592	O	ALA	A	77	32.092	71.120	52.630	1.00	15.31	A	O
ATOM	593	N	LEU	A	78	32.355	70.350	50.533	1.00	17.95	A	N
ATOM	594	CA	LEU	A	78	33.173	69.217	50.950	1.00	18.28	A	C
ATOM	595	CB	LEU	A	78	33.701	68.456	49.726	1.00	17.49	A	C
ATOM	596	CG	LEU	A	78	34.425	67.141	50.053	1.00	18.47	A	C
ATOM	597	CD1	LEU	A	78	33.467	66.196	50.771	1.00	13.07	A	C
ATOM	598	CD2	LEU	A	78	34.949	66.493	48.772	1.00	15.57	A	C
ATOM	599	C	LEU	A	78	34.337	69.572	51.873	1.00	19.44	A	C
ATOM	600	O	LEU	A	78	34.478	68.986	52.944	1.00	17.85	A	O
ATOM	601	N	GLU	A	79	35.173	70.524	51.472	1.00	20.74	A	N
ATOM	602	CA	GLU	A	79	36.310	70.897	52.304	1.00	23.29	A	C
ATOM	603	CB	GLU	A	79	37.112	72.023	51.652	1.00	25.50	A	C
ATOM	604	CG	GLU	A	79	38.332	72.435	52.464	1.00	32.40	A	C
ATOM	605	CD	GLU	A	79	39.248	73.382	51.714	1.00	36.37	A	C
ATOM	606	OE1	GLU	A	79	38.811	74.501	51.377	1.00	38.33	A	O
ATOM	607	OE2	GLU	A	79	40.411	73.002	51.459	1.00	40.30	A	O
ATOM	608	C	GLU	A	79	35.900	71.312	53.716	1.00	22.08	A	C
ATOM	609	O	GLU	A	79	36.512	70.888	54.691	1.00	22.83	A	O
ATOM	610	N	GLU	A	80	34.862	72.132	53.825	1.00	22.05	A	N
ATOM	611	CA	GLU	A	80	34.399	72.591	55.125	1.00	21.68	A	C
ATOM	612	CB	GLU	A	80	33.336	73.675	54.957	1.00	26.13	A	C
ATOM	613	CG	GLU	A	80	33.081	74.457	56.232	1.00	32.22	A	C
ATOM	614	CD	GLU	A	80	34.173	75.479	56.521	1.00	34.38	A	C
ATOM	615	OE1	GLU	A	80	35.371	75.145	56.399	1.00	36.64	A	O
ATOM	616	OE2	GLU	A	80	33.828	76.623	56.878	1.00	38.94	A	O
ATOM	617	C	GLU	A	80	33.823	71.435	55.939	1.00	21.19	A	C
ATOM	618	O	GLU	A	80	34.013	71.359	57.152	1.00	20.49	A	O
ATOM	619	N	MET	A	81	33.116	70.533	55.269	1.00	18.90	A	N
ATOM	620	CA	MET	A	81	32.531	69.389	55.950	1.00	16.84	A	C
ATOM	621	CB	MET	A	81	31.639	68.605	54.992	1.00	14.00	A	C
ATOM	622	CG	MET	A	81	30.375	69.349	54.615	1.00	15.86	A	C
ATOM	623	SD	MET	A	81	29.517	68.583	53.244	1.00	15.74	A	S
ATOM	624	CE	MET	A	81	28.866	67.134	54.019	1.00	14.04	A	C
ATOM	625	C	MET	A	81	33.618	68.474	56.503	1.00	17.31	A	C
ATOM	626	O	MET	A	81	33.539	68.020	57.646	1.00	16.49	A	O
ATOM	627	N	GLN	A	82	34.632	68.216	55.684	1.00	18.90	A	N
ATOM	628	CA	GLN	A	82	35.739	67.351	56.078	1.00	22.12	A	C
ATOM	629	CB	GLN	A	82	36.674	67.125	54.887	1.00	22.92	A	C
ATOM	630	CG	GLN	A	82	36.001	66.442	53.706	1.00	21.03	A	C
ATOM	631	CD	GLN	A	82	36.961	66.158	52.575	1.00	22.15	A	C
ATOM	632	OE1	GLN	A	82	37.725	67.033	52.159	1.00	22.13	A	O
ATOM	633	NE2	GLN	A	82	36.924	64.934	52.061	1.00	20.69	A	N
ATOM	634	C	GLN	A	82	36.516	67.956	57.237	1.00	24.53	A	C
ATOM	635	O	GLN	A	82	37.051	67.239	58.086	1.00	23.68	A	O
ATOM	636	N	LYS	A	83	36.565	69.282	57.271	1.00	26.24	A	N
ATOM	637	CA	LYS	A	83	37.282	69.993	58.317	1.00	30.03	A	C
ATOM	638	CB	LYS	A	83	37.178	71.505	58.092	1.00	30.40	A	C
ATOM	639	CG	LYS	A	83	38.023	72.336	59.041	1.00	34.26	A	C
ATOM	640	CD	LYS	A	83	37.873	73.829	58.756	1.00	38.51	A	C
ATOM	641	CE	LYS	A	83	38.287	74.175	57.329	1.00	42.25	A	C
ATOM	642	NZ	LYS	A	83	38.067	75.619	57.005	1.00	43.57	A	N
ATOM	643	C	LYS	A	83	36.764	69.650	59.708	1.00	30.42	A	C
ATOM	644	O	LYS	A	83	37.551	69.395	60.616	1.00	31.77	A	O
ATOM	645	N	TYR	A	84	35.445	69.624	59.870	1.00	30.72	A	N
ATOM	646	CA	TYR	A	84	34.850	69.341	61.173	1.00	34.49	A	C
ATOM	647	CB	TYR	A	84	33.702	70.322	61.441	1.00	38.58	A	C
ATOM	648	CG	TYR	A	84	34.109	71.781	61.386	1.00	43.85	A	C

Figure 4M

ATOM	649	CD1 TYR A 84	34.172	72.465	60.169	1.00	45.26	A	C
ATOM	650	CE1 TYR A 84	34.575	73.803	60.111	1.00	46.74	A	C
ATOM	651	CD2 TYR A 84	34.460	72.472	62.549	1.00	45.80	A	C
ATOM	652	CE2 TYR A 84	34.865	73.808	62.501	1.00	47.25	A	C
ATOM	653	CZ TYR A 84	34.920	74.467	61.281	1.00	47.45	A	C
ATOM	654	OH TYR A 84	35.321	75.784	61.233	1.00	47.13	A	O
ATOM	655	C TYR A 84	34.349	67.911	61.401	1.00	33.43	A	C
ATOM	656	O TYR A 84	33.973	67.555	62.520	1.00	34.46	A	O
ATOM	657	N SER A 85	34.348	67.088	60.361	1.00	30.46	A	N
ATOM	658	CA SER A 85	33.865	65.721	60.507	1.00	27.21	A	C
ATOM	659	CB SER A 85	33.384	65.192	59.160	1.00	26.99	A	C
ATOM	660	OG SER A 85	33.003	63.836	59.279	1.00	27.59	A	O
ATOM	661	C SER A 85	34.883	64.745	61.088	1.00	25.50	A	C
ATOM	662	O SER A 85	36.059	64.778	60.730	1.00	24.71	A	O
ATOM	663	N LYS A 86	34.415	63.875	61.981	1.00	23.68	A	N
ATOM	664	CA LYS A 86	35.265	62.868	62.609	1.00	23.93	A	C
ATOM	665	CB LYS A 86	34.741	62.509	64.005	1.00	26.65	A	C
ATOM	666	CG LYS A 86	34.774	63.644	65.028	1.00	31.69	A	C
ATOM	667	CD LYS A 86	36.190	63.990	65.491	1.00	34.31	A	C
ATOM	668	CE LYS A 86	37.015	64.657	64.401	1.00	35.72	A	C
ATOM	669	NZ LYS A 86	38.359	65.087	64.902	1.00	41.28	A	N
ATOM	670	C LYS A 86	35.308	61.607	61.752	1.00	22.61	A	C
ATOM	671	O LYS A 86	36.192	60.765	61.914	1.00	23.21	A	O
ATOM	672	N ILE A 87	34.337	61.462	60.857	1.00	19.67	A	N
ATOM	673	CA ILE A 87	34.305	60.302	59.975	1.00	18.68	A	C
ATOM	674	CB ILE A 87	32.896	59.681	59.888	1.00	18.75	A	C
ATOM	675	CG2 ILE A 87	32.510	59.090	61.233	1.00	18.89	A	C
ATOM	676	CG1 ILE A 87	31.887	60.742	59.433	1.00	21.06	A	C
ATOM	677	CD1 ILE A 87	30.508	60.187	59.086	1.00	18.90	A	C
ATOM	678	C ILE A 87	34.720	60.751	58.585	1.00	16.98	A	C
ATOM	679	O ILE A 87	34.614	61.932	58.248	1.00	16.62	A	O
ATOM	680	N PRO A 88	35.219	59.822	57.761	1.00	17.72	A	N
ATOM	681	CD PRO A 88	35.548	58.403	57.992	1.00	17.09	A	C
ATOM	682	CA PRO A 88	35.616	60.247	56.418	1.00	17.99	A	C
ATOM	683	CB PRO A 88	36.319	59.011	55.857	1.00	19.59	A	C
ATOM	684	CG PRO A 88	35.648	57.872	56.587	1.00	18.28	A	C
ATOM	685	C PRO A 88	34.411	60.672	55.577	1.00	19.00	A	C
ATOM	686	O PRO A 88	33.318	60.125	55.711	1.00	17.80	A	O
ATOM	687	N ILE A 89	34.622	61.668	54.726	1.00	19.35	A	N
ATOM	688	CA ILE A 89	33.577	62.163	53.843	1.00	18.35	A	C
ATOM	689	CB ILE A 89	33.171	63.613	54.196	1.00	18.03	A	C
ATOM	690	CG2 ILE A 89	32.157	64.136	53.185	1.00	16.99	A	C
ATOM	691	CG1 ILE A 89	32.562	63.641	55.598	1.00	18.30	A	C
ATOM	692	CD1 ILE A 89	32.020	64.990	56.011	1.00	26.25	A	C
ATOM	693	C ILE A 89	34.134	62.108	52.429	1.00	17.01	A	C
ATOM	694	O ILE A 89	35.206	62.646	52.144	1.00	18.36	A	O
ATOM	695	N VAL A 90	33.406	61.435	51.551	1.00	15.45	A	N
ATOM	696	CA VAL A 90	33.829	61.270	50.173	1.00	14.79	A	C
ATOM	697	CB VAL A 90	33.899	59.779	49.806	1.00	14.33	A	C
ATOM	698	CG1 VAL A 90	34.409	59.605	48.389	1.00	12.10	A	C
ATOM	699	CG2 VAL A 90	34.804	59.055	50.796	1.00	15.51	A	C
ATOM	700	C VAL A 90	32.858	61.957	49.234	1.00	14.94	A	C
ATOM	701	O VAL A 90	31.658	61.702	49.283	1.00	15.20	A	O
ATOM	702	N GLY A 91	33.391	62.830	48.387	1.00	13.93	A	N
ATOM	703	CA GLY A 91	32.570	63.540	47.427	1.00	14.67	A	C
ATOM	704	C GLY A 91	32.606	62.829	46.087	1.00	15.17	A	C
ATOM	705	O GLY A 91	33.262	61.794	45.937	1.00	15.39	A	O
ATOM	706	N VAL A 92	31.921	63.391	45.101	1.00	13.28	A	N

Figure 4N

ATOM	707	CA	VAL A 92	31.871	62.777	43.782	1.00	15.09	A	C
ATOM	708	CB	VAL A 92	30.434	62.762	43.243	1.00	14.78	A	C
ATOM	709	CG1	VAL A 92	29.629	61.703	43.977	1.00	14.03	A	C
ATOM	710	CG2	VAL A 92	29.793	64.135	43.412	1.00	10.70	A	C
ATOM	711	C	VAL A 92	32.770	63.405	42.730	1.00	14.63	A	C
ATOM	712	O	VAL A 92	32.739	63.006	41.567	1.00	17.71	A	O
ATOM	713	N	ILE A 93	33.578	64.378	43.128	1.00	15.55	A	N
ATOM	714	CA	ILE A 93	34.468	65.025	42.176	1.00	16.08	A	C
ATOM	715	CB	ILE A 93	34.684	66.497	42.561	1.00	16.56	A	C
ATOM	716	CG2	ILE A 93	35.653	67.169	41.589	1.00	11.15	A	C
ATOM	717	CG1	ILE A 93	33.329	67.210	42.555	1.00	17.56	A	C
ATOM	718	CD1	ILE A 93	33.385	68.627	43.056	1.00	24.35	A	C
ATOM	719	C	ILE A 93	35.812	64.304	42.032	1.00	15.47	A	C
ATOM	720	O	ILE A 93	36.180	63.904	40.926	1.00	14.93	A	O
ATOM	721	N	GLU A 94	36.536	64.118	43.132	1.00	16.92	A	N
ATOM	722	CA	GLU A 94	37.831	63.446	43.052	1.00	16.92	A	C
ATOM	723	CB	GLU A 94	38.471	63.305	44.434	1.00	20.92	A	C
ATOM	724	CG	GLU A 94	39.894	62.754	44.361	1.00	26.29	A	C
ATOM	725	CD	GLU A 94	40.576	62.678	45.713	1.00	32.62	A	C
ATOM	726	OE1	GLU A 94	40.310	61.723	46.474	1.00	35.02	A	O
ATOM	727	OE2	GLU A 94	41.377	63.588	46.019	1.00	37.91	A	O
ATOM	728	C	GLU A 94	37.745	62.067	42.399	1.00	16.23	A	C
ATOM	729	O	GLU A 94	38.594	61.710	41.578	1.00	12.72	A	O
ATOM	730	N	PRO A 95	36.728	61.263	42.765	1.00	14.67	A	N
ATOM	731	CD	PRO A 95	35.728	61.426	43.835	1.00	11.50	A	C
ATOM	732	CA	PRO A 95	36.612	59.933	42.154	1.00	13.49	A	C
ATOM	733	CB	PRO A 95	35.324	59.385	42.766	1.00	10.50	A	C
ATOM	734	CG	PRO A 95	35.340	59.990	44.132	1.00	13.67	A	C
ATOM	735	C	PRO A 95	36.552	59.995	40.628	1.00	13.36	A	C
ATOM	736	O	PRO A 95	37.111	59.144	39.942	1.00	13.11	A	O
ATOM	737	N	SER A 96	35.868	61.001	40.097	1.00	13.15	A	N
ATOM	738	CA	SER A 96	35.769	61.145	38.652	1.00	13.88	A	C
ATOM	739	CB	SER A 96	34.712	62.190	38.287	1.00	13.27	A	C
ATOM	740	OG	SER A 96	33.415	61.695	38.569	1.00	13.98	A	O
ATOM	741	C	SER A 96	37.121	61.532	38.062	1.00	16.13	A	C
ATOM	742	O	SER A 96	37.482	61.069	36.978	1.00	16.25	A	O
ATOM	743	N	ILE A 97	37.862	62.381	38.774	1.00	16.51	A	N
ATOM	744	CA	ILE A 97	39.181	62.807	38.318	1.00	16.84	A	C
ATOM	745	CB	ILE A 97	39.836	63.786	39.325	1.00	20.72	A	C
ATOM	746	CG2	ILE A 97	41.243	64.165	38.860	1.00	19.14	A	C
ATOM	747	CG1	ILE A 97	38.968	65.039	39.477	1.00	21.89	A	C
ATOM	748	CD1	ILE A 97	38.774	65.827	38.192	1.00	22.65	A	C
ATOM	749	C	ILE A 97	40.070	61.572	38.178	1.00	17.43	A	C
ATOM	750	O	ILE A 97	40.762	61.399	37.171	1.00	16.68	A	O
ATOM	751	N	LEU A 98	40.043	60.716	39.193	1.00	15.65	A	N
ATOM	752	CA	LEU A 98	40.840	59.498	39.182	1.00	18.16	A	C
ATOM	753	CB	LEU A 98	40.749	58.809	40.547	1.00	16.07	A	C
ATOM	754	CG	LEU A 98	41.359	59.641	41.682	1.00	15.84	A	C
ATOM	755	CD1	LEU A 98	41.069	58.980	43.020	1.00	13.47	A	C
ATOM	756	CD2	LEU A 98	42.866	59.788	41.466	1.00	19.12	A	C
ATOM	757	C	LEU A 98	40.374	58.563	38.063	1.00	17.77	A	C
ATOM	758	O	LEU A 98	41.199	57.934	37.389	1.00	16.62	A	O
ATOM	759	N	ALA A 99	39.058	58.485	37.859	1.00	16.23	A	N
ATOM	760	CA	ALA A 99	38.490	57.643	36.807	1.00	18.22	A	C
ATOM	761	CB	ALA A 99	36.962	57.767	36.788	1.00	20.22	A	C
ATOM	762	C	ALA A 99	39.065	58.077	35.462	1.00	17.90	A	C
ATOM	763	O	ALA A 99	39.496	57.246	34.658	1.00	17.01	A	O
ATOM	764	N	ILE A 100	39.067	59.386	35.226	1.00	15.73	A	N

Figure 4O

ATOM	765	CA	ILE A 100	39.601	59.939	33.987	1.00	17.26	A	C
ATOM	766	CB	ILE A 100	39.378	61.461	33.932	1.00	12.99	A	C
ATOM	767	CG2	ILE A 100	40.158	62.065	32.772	1.00	16.82	A	C
ATOM	768	CG1	ILE A 100	37.880	61.752	33.795	1.00	15.82	A	C
ATOM	769	CD1	ILE A 100	37.516	63.216	33.925	1.00	14.23	A	C
ATOM	770	C	ILE A 100	41.099	59.640	33.878	1.00	19.31	A	C
ATOM	771	O	ILE A 100	41.594	59.260	32.815	1.00	19.06	A	O
ATOM	772	N	LYS A 101	41.812	59.802	34.986	1.00	19.58	A	N
ATOM	773	CA	LYS A 101	43.246	59.543	35.019	1.00	22.07	A	C
ATOM	774	CB	LYS A 101	43.771	59.741	36.440	1.00	23.70	A	C
ATOM	775	CG	LYS A 101	45.273	59.581	36.595	1.00	28.63	A	C
ATOM	776	CD	LYS A 101	45.671	59.665	38.062	1.00	33.56	A	C
ATOM	777	CE	LYS A 101	47.180	59.570	38.245	1.00	36.39	A	C
ATOM	778	NZ	LYS A 101	47.894	60.739	37.649	1.00	38.26	A	N
ATOM	779	C	LYS A 101	43.538	58.117	34.551	1.00	23.93	A	C
ATOM	780	O	LYS A 101	44.472	57.882	33.780	1.00	23.77	A	O
ATOM	781	N	ARG A 102	42.723	57.174	35.010	1.00	23.37	A	N
ATOM	782	CA	ARG A 102	42.899	55.775	34.655	1.00	25.65	A	C
ATOM	783	CB	ARG A 102	42.096	54.870	35.593	1.00	25.41	A	C
ATOM	784	CG	ARG A 102	42.656	54.749	37.000	1.00	28.61	A	C
ATOM	785	CD	ARG A 102	41.926	53.657	37.782	1.00	31.73	A	C
ATOM	786	NE	ARG A 102	40.486	53.903	37.858	1.00	35.18	A	N
ATOM	787	CZ	ARG A 102	39.903	54.713	38.736	1.00	34.42	A	C
ATOM	788	NH1	ARG A 102	38.586	54.876	38.718	1.00	29.69	A	N
ATOM	789	NH2	ARG A 102	40.637	55.344	39.644	1.00	34.01	A	N
ATOM	790	C	ARG A 102	42.522	55.437	33.222	1.00	26.39	A	C
ATOM	791	O	ARG A 102	43.180	54.611	32.594	1.00	26.86	A	O
ATOM	792	N	GLN A 103	41.473	56.061	32.694	1.00	26.77	A	N
ATOM	793	CA	GLN A 103	41.067	55.733	31.331	1.00	27.82	A	C
ATOM	794	CB	GLN A 103	39.585	55.335	31.306	1.00	28.07	A	C
ATOM	795	CG	GLN A 103	38.661	56.210	32.116	1.00	31.66	A	C
ATOM	796	CD	GLN A 103	37.378	55.489	32.504	1.00	32.01	A	C
ATOM	797	OE1	GLN A 103	36.672	54.951	31.651	1.00	32.82	A	O
ATOM	798	NE2	GLN A 103	37.071	55.479	33.797	1.00	31.78	A	N
ATOM	799	C	GLN A 103	41.363	56.739	30.223	1.00	26.37	A	C
ATOM	800	O	GLN A 103	41.024	56.494	29.066	1.00	26.19	A	O
ATOM	801	N	VAL A 104	42.003	57.856	30.559	1.00	25.47	A	N
ATOM	802	CA	VAL A 104	42.342	58.855	29.550	1.00	24.55	A	C
ATOM	803	CB	VAL A 104	41.542	60.154	29.756	1.00	23.42	A	C
ATOM	804	CG1	VAL A 104	41.998	61.208	28.755	1.00	24.85	A	C
ATOM	805	CG2	VAL A 104	40.055	59.876	29.582	1.00	19.58	A	C
ATOM	806	C	VAL A 104	43.838	59.174	29.578	1.00	26.78	A	C
ATOM	807	O	VAL A 104	44.287	60.043	30.324	1.00	25.34	A	O
ATOM	808	N	GLU A 105	44.601	58.460	28.755	1.00	27.15	A	N
ATOM	809	CA	GLU A 105	46.045	58.641	28.679	1.00	28.29	A	C
ATOM	810	CB	GLU A 105	46.680	57.457	27.947	1.00	33.28	A	C
ATOM	811	CG	GLU A 105	46.743	56.183	28.771	1.00	42.55	A	C
ATOM	812	CD	GLU A 105	47.669	56.315	29.969	1.00	46.07	A	C
ATOM	813	OE1	GLU A 105	47.467	57.242	30.784	1.00	48.67	A	O
ATOM	814	OE2	GLU A 105	48.600	55.491	30.095	1.00	49.87	A	O
ATOM	815	C	GLU A 105	46.461	59.930	27.995	1.00	27.62	A	C
ATOM	816	O	GLU A 105	47.395	60.600	28.437	1.00	27.02	A	O
ATOM	817	N	ASP A 106	45.769	60.273	26.914	1.00	26.11	A	N
ATOM	818	CA	ASP A 106	46.079	61.485	26.164	1.00	25.35	A	C
ATOM	819	CB	ASP A 106	45.271	61.526	24.867	1.00	24.40	A	C
ATOM	820	CG	ASP A 106	45.714	62.641	23.932	1.00	25.06	A	C
ATOM	821	OD1	ASP A 106	46.302	63.640	24.404	1.00	25.51	A	O
ATOM	822	OD2	ASP A 106	45.458	62.522	22.718	1.00	25.51	A	O

Figure 4P

ATOM	823	C	ASP A 106	45.759	62.722	26.991	1.00	24.65	A	C
ATOM	824	O	ASP A 106	44.593	63.086	27.142	1.00	24.49	A	O
ATOM	825	N	LYS A 107	46.791	63.372	27.519	1.00	25.06	A	N
ATOM	826	CA	LYS A 107	46.593	64.570	28.327	1.00	24.62	A	C
ATOM	827	CB	LYS A 107	47.919	65.024	28.954	1.00	26.00	A	C
ATOM	828	CG	LYS A 107	48.506	64.047	29.972	1.00	28.40	A	C
ATOM	829	CD	LYS A 107	47.527	63.770	31.107	1.00	26.24	A	C
ATOM	830	CE	LYS A 107	48.086	62.757	32.090	1.00	30.72	A	C
ATOM	831	NZ	LYS A 107	47.086	62.398	33.133	1.00	34.82	A	N
ATOM	832	C	LYS A 107	46.000	65.708	27.503	1.00	24.04	A	C
ATOM	833	O	LYS A 107	45.538	66.706	28.054	1.00	25.01	A	O
ATOM	834	N	ASN A 108	46.014	65.555	26.182	1.00	24.07	A	N
ATOM	835	CA	ASN A 108	45.473	66.572	25.286	1.00	23.49	A	C
ATOM	836	CB	ASN A 108	46.390	66.750	24.073	1.00	23.91	A	C
ATOM	837	CG	ASN A 108	47.596	67.601	24.385	1.00	26.66	A	C
ATOM	838	OD1	ASN A 108	47.464	68.780	24.716	1.00	28.22	A	O
ATOM	839	ND2	ASN A 108	48.780	67.011	24.293	1.00	26.45	A	N
ATOM	840	C	ASN A 108	44.059	66.255	24.818	1.00	21.66	A	C
ATOM	841	O	ASN A 108	43.487	66.983	24.009	1.00	22.58	A	O
ATOM	842	N	ALA A 109	43.494	65.164	25.321	1.00	21.45	A	N
ATOM	843	CA	ALA A 109	42.137	64.793	24.946	1.00	20.49	A	C
ATOM	844	CB	ALA A 109	41.755	63.468	25.599	1.00	21.55	A	C
ATOM	845	C	ALA A 109	41.187	65.902	25.402	1.00	18.98	A	C
ATOM	846	O	ALA A 109	41.237	66.346	26.546	1.00	18.14	A	O
ATOM	847	N	PRO A 110	40.315	66.375	24.505	1.00	19.61	A	N
ATOM	848	CD	PRO A 110	40.090	65.997	23.100	1.00	20.78	A	C
ATOM	849	CA	PRO A 110	39.397	67.436	24.919	1.00	18.53	A	C
ATOM	850	CB	PRO A 110	38.762	67.872	23.606	1.00	18.56	A	C
ATOM	851	CG	PRO A 110	38.726	66.596	22.825	1.00	22.18	A	C
ATOM	852	C	PRO A 110	38.380	66.924	25.928	1.00	17.90	A	C
ATOM	853	O	PRO A 110	37.623	65.996	25.650	1.00	18.78	A	O
ATOM	854	N	ILE A 111	38.384	67.526	27.109	1.00	16.88	A	N
ATOM	855	CA	ILE A 111	37.461	67.137	28.165	1.00	16.87	A	C
ATOM	856	CB	ILE A 111	38.197	66.905	29.503	1.00	17.13	A	C
ATOM	857	CG2	ILE A 111	37.195	66.560	30.592	1.00	18.00	A	C
ATOM	858	CG1	ILE A 111	39.225	65.780	29.352	1.00	16.90	A	C
ATOM	859	CD1	ILE A 111	40.127	65.612	30.574	1.00	20.07	A	C
ATOM	860	C	ILE A 111	36.438	68.246	28.360	1.00	14.74	A	C
ATOM	861	O	ILE A 111	36.792	69.422	28.422	1.00	18.10	A	O
ATOM	862	N	LEU A 112	35.170	67.861	28.450	1.00	15.95	A	N
ATOM	863	CA	LEU A 112	34.086	68.814	28.646	1.00	15.98	A	C
ATOM	864	CB	LEU A 112	33.081	68.715	27.498	1.00	13.81	A	C
ATOM	865	CG	LEU A 112	31.755	69.460	27.703	1.00	17.30	A	C
ATOM	866	CD1	LEU A 112	32.000	70.958	27.834	1.00	12.50	A	C
ATOM	867	CD2	LEU A 112	30.832	69.165	26.524	1.00	17.57	A	C
ATOM	868	C	LEU A 112	33.379	68.527	29.966	1.00	15.50	A	C
ATOM	869	O	LEU A 112	32.823	67.445	30.158	1.00	14.25	A	O
ATOM	870	N	VAL A 113	33.394	69.507	30.864	1.00	15.54	A	N
ATOM	871	CA	VAL A 113	32.767	69.361	32.173	1.00	15.01	A	C
ATOM	872	CB	VAL A 113	33.614	70.035	33.278	1.00	16.33	A	C
ATOM	873	CG1	VAL A 113	33.011	69.752	34.653	1.00	12.34	A	C
ATOM	874	CG2	VAL A 113	35.053	69.538	33.208	1.00	15.51	A	C
ATOM	875	C	VAL A 113	31.390	70.006	32.178	1.00	15.47	A	C
ATOM	876	O	VAL A 113	31.257	71.197	31.901	1.00	15.67	A	O
ATOM	877	N	LEU A 114	30.370	69.215	32.494	1.00	14.67	A	N
ATOM	878	CA	LEU A 114	29.000	69.717	32.554	1.00	13.42	A	C
ATOM	879	CB	LEU A 114	28.074	68.836	31.716	1.00	13.87	A	C
ATOM	880	CG	LEU A 114	28.440	68.622	30.247	1.00	15.67	A	C

Figure 4Q

ATOM	881	CD1 LEU A 114	27.349	67.775	29.595	1.00	14.66	A	C
ATOM	882	CD2 LEU A 114	28.583	69.965	29.528	1.00	16.47	A	C
ATOM	883	C LEU A 114	28.536	69.684	34.006	1.00	12.89	A	C
ATOM	884	O LEU A 114	28.772	68.706	34.718	1.00	12.06	A	O
ATOM	885	N GLY A 115	27.873	70.745	34.451	1.00	13.97	A	N
ATOM	886	CA GLY A 115	27.403	70.763	35.822	1.00	12.19	A	C
ATOM	887	C GLY A 115	26.528	71.961	36.088	1.00	13.28	A	C
ATOM	888	O GLY A 115	26.171	72.696	35.160	1.00	14.73	A	O
ATOM	889	N THR A 116	26.167	72.153	37.351	1.00	11.11	A	N
ATOM	890	CA THR A 116	25.348	73.297	37.725	1.00	13.32	A	C
ATOM	891	CB THR A 116	24.866	73.197	39.170	1.00	11.37	A	C
ATOM	892	OG1 THR A 116	26.000	73.180	40.041	1.00	10.70	A	O
ATOM	893	CG2 THR A 116	24.036	71.939	39.367	1.00	10.35	A	C
ATOM	894	C THR A 116	26.195	74.554	37.614	1.00	14.14	A	C
ATOM	895	O THR A 116	27.416	74.482	37.431	1.00	14.71	A	O
ATOM	896	N LYS A 117	25.535	75.701	37.716	1.00	13.99	A	N
ATOM	897	CA LYS A 117	26.204	76.993	37.657	1.00	14.71	A	C
ATOM	898	CB LYS A 117	25.147	78.105	37.777	1.00	15.38	A	C
ATOM	899	CG LYS A 117	25.652	79.472	38.236	1.00	25.83	A	C
ATOM	900	CD LYS A 117	26.685	80.064	37.296	1.00	33.76	A	C
ATOM	901	CE LYS A 117	26.103	80.361	35.920	1.00	38.20	A	C
ATOM	902	NZ LYS A 117	27.105	81.002	35.015	1.00	42.09	A	N
ATOM	903	C LYS A 117	27.233	77.085	38.787	1.00	12.72	A	C
ATOM	904	O LYS A 117	28.356	77.549	38.588	1.00	11.82	A	O
ATOM	905	N ALA A 118	26.854	76.621	39.972	1.00	11.59	A	N
ATOM	906	CA ALA A 118	27.750	76.671	41.120	1.00	11.90	A	C
ATOM	907	CB ALA A 118	26.990	76.297	42.382	1.00	8.77	A	C
ATOM	908	C ALA A 118	28.965	75.758	40.955	1.00	13.39	A	C
ATOM	909	O ALA A 118	30.099	76.161	41.223	1.00	14.34	A	O
ATOM	910	N THR A 119	28.721	74.530	40.508	1.00	13.12	A	N
ATOM	911	CA THR A 119	29.789	73.561	40.316	1.00	12.85	A	C
ATOM	912	CB THR A 119	29.224	72.205	39.840	1.00	13.42	A	C
ATOM	913	OG1 THR A 119	28.398	71.647	40.869	1.00	11.57	A	O
ATOM	914	CG2 THR A 119	30.353	71.235	39.509	1.00	13.13	A	C
ATOM	915	C THR A 119	30.808	74.050	39.298	1.00	12.99	A	C
ATOM	916	O THR A 119	32.016	74.004	39.547	1.00	13.76	A	O
ATOM	917	N ILE A 120	30.323	74.520	38.154	1.00	11.88	A	N
ATOM	918	CA ILE A 120	31.213	75.003	37.103	1.00	13.74	A	C
ATOM	919	CB ILE A 120	30.419	75.310	35.807	1.00	13.41	A	C
ATOM	920	CG2 ILE A 120	31.321	75.980	34.769	1.00	14.31	A	C
ATOM	921	CG1 ILE A 120	29.799	74.012	35.266	1.00	14.49	A	C
ATOM	922	CD1 ILE A 120	30.786	72.862	35.086	1.00	12.48	A	C
ATOM	923	C ILE A 120	31.977	76.246	37.547	1.00	16.55	A	C
ATOM	924	O ILE A 120	33.192	76.337	37.372	1.00	18.38	A	O
ATOM	925	N GLN A 121	31.257	77.200	38.126	1.00	19.17	A	N
ATOM	926	CA GLN A 121	31.861	78.437	38.601	1.00	20.47	A	C
ATOM	927	CB GLN A 121	30.790	79.302	39.275	1.00	22.58	A	C
ATOM	928	CG GLN A 121	31.332	80.406	40.175	1.00	27.23	A	C
ATOM	929	CD GLN A 121	30.251	81.377	40.627	1.00	30.53	A	C
ATOM	930	OE1 GLN A 121	30.383	82.030	41.664	1.00	32.67	A	O
ATOM	931	NE2 GLN A 121	29.185	81.486	39.842	1.00	28.50	A	N
ATOM	932	C GLN A 121	33.012	78.170	39.570	1.00	20.02	A	C
ATOM	933	O GLN A 121	33.979	78.931	39.622	1.00	20.38	A	O
ATOM	934	N SER A 122	32.905	77.082	40.326	1.00	20.65	A	N
ATOM	935	CA SER A 122	33.919	76.709	41.311	1.00	19.01	A	C
ATOM	936	CB SER A 122	33.377	75.609	42.222	1.00	17.57	A	C
ATOM	937	OG SER A 122	33.446	74.356	41.556	1.00	13.49	A	O
ATOM	938	C SER A 122	35.220	76.201	40.686	1.00	18.75	A	C

Figure 4R

ATOM	939	O	SER A 122	36.270	76.232	41.325	1.00	17.22	A	O
ATOM	940	N	ASN A 123	35.136	75.709	39.454	1.00	18.64	A	N
ATOM	941	CA	ASN A 123	36.292	75.159	38.752	1.00	19.81	A	C
ATOM	942	CB	ASN A 123	37.355	76.237	38.538	1.00	23.62	A	C
ATOM	943	CG	ASN A 123	36.915	77.277	37.537	1.00	27.79	A	C
ATOM	944	OD1	ASN A 123	36.375	76.939	36.483	1.00	25.00	A	O
ATOM	945	ND2	ASN A 123	37.141	78.549	37.855	1.00	30.06	A	N
ATOM	946	C	ASN A 123	36.898	73.967	39.487	1.00	18.35	A	C
ATOM	947	O	ASN A 123	38.057	73.606	39.272	1.00	15.93	A	O
ATOM	948	N	ALA A 124	36.101	73.356	40.356	1.00	16.83	A	N
ATOM	949	CA	ALA A 124	36.550	72.197	41.113	1.00	18.02	A	C
ATOM	950	CB	ALA A 124	35.392	71.613	41.914	1.00	17.02	A	C
ATOM	951	C	ALA A 124	37.109	71.148	40.157	1.00	16.55	A	C
ATOM	952	O	ALA A 124	38.195	70.614	40.376	1.00	17.86	A	O
ATOM	953	N	TYR A 125	36.370	70.858	39.091	1.00	15.55	A	N
ATOM	954	CA	TYR A 125	36.817	69.870	38.121	1.00	15.38	A	C
ATOM	955	CB	TYR A 125	35.699	69.549	37.125	1.00	14.36	A	C
ATOM	956	CG	TYR A 125	34.638	68.609	37.662	1.00	15.54	A	C
ATOM	957	CD1	TYR A 125	33.460	69.096	38.226	1.00	13.69	A	C
ATOM	958	CE1	TYR A 125	32.478	68.230	38.701	1.00	16.51	A	C
ATOM	959	CD2	TYR A 125	34.813	67.224	37.591	1.00	15.03	A	C
ATOM	960	CE2	TYR A 125	33.839	66.349	38.064	1.00	16.83	A	C
ATOM	961	CZ	TYR A 125	32.677	66.857	38.614	1.00	15.95	A	C
ATOM	962	OH	TYR A 125	31.718	65.993	39.065	1.00	16.50	A	O
ATOM	963	C	TYR A 125	38.060	70.323	37.361	1.00	15.65	A	C
ATOM	964	O	TYR A 125	39.050	69.596	37.289	1.00	12.18	A	O
ATOM	965	N	ASP A 126	37.998	71.523	36.796	1.00	15.04	A	N
ATOM	966	CA	ASP A 126	39.110	72.080	36.032	1.00	19.15	A	C
ATOM	967	CB	ASP A 126	38.805	73.530	35.642	1.00	18.87	A	C
ATOM	968	CG	ASP A 126	37.532	73.659	34.831	1.00	21.01	A	C
ATOM	969	OD1	ASP A 126	36.489	73.129	35.271	1.00	22.54	A	O
ATOM	970	OD2	ASP A 126	37.570	74.295	33.756	1.00	22.03	A	O
ATOM	971	C	ASP A 126	40.423	72.028	36.814	1.00	19.26	A	C
ATOM	972	O	ASP A 126	41.432	71.519	36.316	1.00	19.31	A	O
ATOM	973	N	ASN A 127	40.406	72.542	38.040	1.00	18.32	A	N
ATOM	974	CA	ASN A 127	41.613	72.549	38.860	1.00	20.39	A	C
ATOM	975	CB	ASN A 127	41.349	73.226	40.206	1.00	19.27	A	C
ATOM	976	CG	ASN A 127	41.031	74.703	40.067	1.00	23.43	A	C
ATOM	977	OD1	ASN A 127	41.553	75.382	39.185	1.00	25.20	A	O
ATOM	978	ND2	ASN A 127	40.185	75.213	40.955	1.00	22.93	A	N
ATOM	979	C	ASN A 127	42.183	71.155	39.096	1.00	19.69	A	C
ATOM	980	O	ASN A 127	43.381	70.926	38.926	1.00	19.93	A	O
ATOM	981	N	ALA A 128	41.325	70.222	39.488	1.00	17.80	A	N
ATOM	982	CA	ALA A 128	41.767	68.862	39.742	1.00	19.25	A	C
ATOM	983	CB	ALA A 128	40.596	68.016	40.218	1.00	17.14	A	C
ATOM	984	C	ALA A 128	42.383	68.253	38.489	1.00	18.99	A	C
ATOM	985	O	ALA A 128	43.434	67.614	38.553	1.00	21.03	A	O
ATOM	986	N	LEU A 129	41.734	68.456	37.347	1.00	18.35	A	N
ATOM	987	CA	LEU A 129	42.237	67.911	36.088	1.00	18.37	A	C
ATOM	988	CB	LEU A 129	41.229	68.157	34.966	1.00	16.99	A	C
ATOM	989	CG	LEU A 129	39.944	67.331	35.044	1.00	17.37	A	C
ATOM	990	CD1	LEU A 129	38.906	67.908	34.101	1.00	18.55	A	C
ATOM	991	CD2	LEU A 129	40.247	65.878	34.690	1.00	19.31	A	C
ATOM	992	C	LEU A 129	43.586	68.512	35.709	1.00	18.69	A	C
ATOM	993	O	LEU A 129	44.486	67.799	35.264	1.00	16.61	A	O
ATOM	994	N	LYS A 130	43.722	69.823	35.881	1.00	20.51	A	N
ATOM	995	CA	LYS A 130	44.974	70.492	35.559	1.00	25.95	A	C
ATOM	996	CB	LYS A 130	44.869	72.002	35.815	1.00	29.56	A	C

Figure 4S

ATOM	997	CG	LYS A 130	44.065	72.756	34.766	1.00	35.38	A	C
ATOM	998	CD	LYS A 130	44.211	74.273	34.910	1.00	40.67	A	C
ATOM	999	CE	LYS A 130	43.491	74.796	36.138	1.00	44.58	A	C
ATOM	1000	NZ	LYS A 130	42.021	74.573	36.036	1.00	48.51	A	N
ATOM	1001	C	LYS A 130	46.084	69.899	36.413	1.00	27.20	A	C
ATOM	1002	O	LYS A 130	47.173	69.607	35.921	1.00	26.83	A	O
ATOM	1003	N	GLN A 131	45.793	69.711	37.695	1.00	27.73	A	N
ATOM	1004	CA	GLN A 131	46.768	69.152	38.615	1.00	30.51	A	C
ATOM	1005	CB	GLN A 131	46.168	69.058	40.017	1.00	34.61	A	C
ATOM	1006	CG	GLN A 131	47.164	68.658	41.086	1.00	44.44	A	C
ATOM	1007	CD	GLN A 131	46.499	68.364	42.414	1.00	49.85	A	C
ATOM	1008	OE1	GLN A 131	45.721	67.415	42.532	1.00	53.57	A	O
ATOM	1009	NE2	GLN A 131	46.797	69.181	43.423	1.00	52.59	A	N
ATOM	1010	C	GLN A 131	47.205	67.769	38.139	1.00	29.59	A	C
ATOM	1011	O	GLN A 131	48.333	67.347	38.389	1.00	27.34	A	O
ATOM	1012	N	GLN A 132	46.311	67.066	37.452	1.00	27.34	A	N
ATOM	1013	CA	GLN A 132	46.634	65.738	36.950	1.00	28.50	A	C
ATOM	1014	CB	GLN A 132	45.382	64.865	36.894	1.00	30.13	A	C
ATOM	1015	CG	GLN A 132	44.863	64.445	38.253	1.00	32.88	A	C
ATOM	1016	CD	GLN A 132	45.924	63.758	39.093	1.00	36.97	A	C
ATOM	1017	OE1	GLN A 132	46.545	62.787	38.659	1.00	36.12	A	O
ATOM	1018	NE2	GLN A 132	46.136	64.262	40.308	1.00	36.40	A	N
ATOM	1019	C	GLN A 132	47.297	65.764	35.579	1.00	26.54	A	C
ATOM	1020	O	GLN A 132	47.465	64.721	34.948	1.00	25.99	A	O
ATOM	1021	N	GLY A 133	47.653	66.958	35.113	1.00	25.65	A	N
ATOM	1022	CA	GLY A 133	48.326	67.079	33.833	1.00	25.61	A	C
ATOM	1023	C	GLY A 133	47.496	67.252	32.575	1.00	26.98	A	C
ATOM	1024	O	GLY A 133	48.061	67.293	31.479	1.00	25.64	A	O
ATOM	1025	N	TYR A 134	46.174	67.353	32.696	1.00	25.10	A	N
ATOM	1026	CA	TYR A 134	45.357	67.526	31.495	1.00	24.59	A	C
ATOM	1027	CB	TYR A 134	43.902	67.120	31.762	1.00	20.44	A	C
ATOM	1028	CG	TYR A 134	43.781	65.626	31.951	1.00	19.78	A	C
ATOM	1029	CD1	TYR A 134	43.870	65.050	33.219	1.00	21.76	A	C
ATOM	1030	CE1	TYR A 134	43.868	63.664	33.380	1.00	19.57	A	C
ATOM	1031	CD2	TYR A 134	43.681	64.774	30.850	1.00	19.08	A	C
ATOM	1032	CE2	TYR A 134	43.682	63.389	31.002	1.00	17.24	A	C
ATOM	1033	CZ	TYR A 134	43.777	62.842	32.265	1.00	18.47	A	C
ATOM	1034	OH	TYR A 134	43.792	61.473	32.413	1.00	19.23	A	O
ATOM	1035	C	TYR A 134	45.461	68.951	30.972	1.00	22.87	A	C
ATOM	1036	O	TYR A 134	45.446	69.908	31.746	1.00	22.48	A	O
ATOM	1037	N	LEU A 135	45.571	69.078	29.650	1.00	22.86	A	N
ATOM	1038	CA	LEU A 135	45.750	70.377	29.008	1.00	24.08	A	C
ATOM	1039	CB	LEU A 135	47.048	70.359	28.192	1.00	24.76	A	C
ATOM	1040	CG	LEU A 135	48.311	69.857	28.906	1.00	25.95	A	C
ATOM	1041	CD1	LEU A 135	49.461	69.790	27.913	1.00	27.98	A	C
ATOM	1042	CD2	LEU A 135	48.658	70.779	30.068	1.00	26.13	A	C
ATOM	1043	C	LEU A 135	44.628	70.873	28.107	1.00	23.53	A	C
ATOM	1044	O	LEU A 135	44.736	71.957	27.539	1.00	24.90	A	O
ATOM	1045	N	ASN A 136	43.556	70.100	27.970	1.00	22.37	A	N
ATOM	1046	CA	ASN A 136	42.450	70.499	27.102	1.00	20.74	A	C
ATOM	1047	CB	ASN A 136	42.411	69.585	25.876	1.00	21.50	A	C
ATOM	1048	CG	ASN A 136	41.613	70.170	24.735	1.00	23.18	A	C
ATOM	1049	OD1	ASN A 136	40.590	70.822	24.945	1.00	25.29	A	O
ATOM	1050	ND2	ASN A 136	42.068	69.923	23.511	1.00	23.17	A	N
ATOM	1051	C	ASN A 136	41.146	70.370	27.887	1.00	20.55	A	C
ATOM	1052	O	ASN A 136	40.430	69.386	27.744	1.00	20.93	A	O
ATOM	1053	N	ILE A 137	40.847	71.371	28.709	1.00	19.65	A	N
ATOM	1054	CA	ILE A 137	39.649	71.347	29.545	1.00	19.51	A	C

Figure 4T

ATOM	1055	CB	ILE A 137	40.021	71.504	31.032	1.00	19.77	A	C
ATOM	1056	CG2	ILE A 137	38.792	71.235	31.905	1.00	18.91	A	C
ATOM	1057	CG1	ILE A 137	41.165	70.548	31.388	1.00	17.50	A	C
ATOM	1058	CD1	ILE A 137	41.841	70.877	32.705	1.00	17.99	A	C
ATOM	1059	C	ILE A 137	38.650	72.445	29.214	1.00	18.94	A	C
ATOM	1060	O	ILE A 137	39.008	73.618	29.141	1.00	18.47	A	O
ATOM	1061	N	SER A 138	37.394	72.054	29.019	1.00	18.59	A	N
ATOM	1062	CA	SER A 138	36.319	73.000	28.729	1.00	19.77	A	C
ATOM	1063	CB	SER A 138	35.810	72.829	27.294	1.00	21.73	A	C
ATOM	1064	OG	SER A 138	36.823	73.104	26.345	1.00	24.47	A	O
ATOM	1065	C	SER A 138	35.177	72.716	29.698	1.00	19.64	A	C
ATOM	1066	O	SER A 138	34.971	71.569	30.102	1.00	20.10	A	O
ATOM	1067	N	HIS A 139	34.443	73.753	30.083	1.00	18.51	A	N
ATOM	1068	CA	HIS A 139	33.319	73.565	30.993	1.00	18.98	A	C
ATOM	1069	CB	HIS A 139	33.697	73.982	32.418	1.00	18.17	A	C
ATOM	1070	CG	HIS A 139	34.220	75.380	32.522	1.00	19.94	A	C
ATOM	1071	CD2	HIS A 139	33.634	76.575	32.268	1.00	20.85	A	C
ATOM	1072	ND1	HIS A 139	35.506	75.661	32.926	1.00	20.98	A	N
ATOM	1073	CE1	HIS A 139	35.692	76.970	32.916	1.00	24.03	A	C
ATOM	1074	NE2	HIS A 139	34.572	77.547	32.520	1.00	22.03	A	N
ATOM	1075	C	HIS A 139	32.082	74.329	30.552	1.00	18.46	A	C
ATOM	1076	O	HIS A 139	32.181	75.372	29.909	1.00	19.58	A	O
ATOM	1077	N	LEU A 140	30.918	73.791	30.902	1.00	18.71	A	N
ATOM	1078	CA	LEU A 140	29.634	74.403	30.573	1.00	19.01	A	C
ATOM	1079	CB	LEU A 140	29.028	73.775	29.316	1.00	20.85	A	C
ATOM	1080	CG	LEU A 140	29.476	74.190	27.918	1.00	22.92	A	C
ATOM	1081	CD1	LEU A 140	28.667	73.394	26.904	1.00	21.79	A	C
ATOM	1082	CD2	LEU A 140	29.255	75.688	27.709	1.00	25.42	A	C
ATOM	1083	C	LEU A 140	28.632	74.227	31.702	1.00	17.69	A	C
ATOM	1084	O	LEU A 140	28.422	73.118	32.194	1.00	17.06	A	O
ATOM	1085	N	ALA A 141	28.008	75.322	32.112	1.00	18.99	A	N
ATOM	1086	CA	ALA A 141	26.995	75.256	33.153	1.00	18.92	A	C
ATOM	1087	CB	ALA A 141	26.976	76.553	33.955	1.00	19.92	A	C
ATOM	1088	C	ALA A 141	25.653	75.046	32.456	1.00	20.05	A	C
ATOM	1089	O	ALA A 141	25.002	76.007	32.053	1.00	22.92	A	O
ATOM	1090	N	THR A 142	25.250	73.790	32.299	1.00	17.67	A	N
ATOM	1091	CA	THR A 142	23.983	73.456	31.650	1.00	15.92	A	C
ATOM	1092	CB	THR A 142	24.069	72.061	30.991	1.00	15.55	A	C
ATOM	1093	OG1	THR A 142	24.474	71.094	31.969	1.00	15.28	A	O
ATOM	1094	CG2	THR A 142	25.091	72.069	29.862	1.00	16.16	A	C
ATOM	1095	C	THR A 142	22.890	73.462	32.725	1.00	16.51	A	C
ATOM	1096	O	THR A 142	22.195	72.469	32.942	1.00	15.07	A	O
ATOM	1097	N	SER A 143	22.746	74.608	33.382	1.00	15.40	A	N
ATOM	1098	CA	SER A 143	21.797	74.779	34.479	1.00	16.69	A	C
ATOM	1099	CB	SER A 143	21.745	76.254	34.886	1.00	18.40	A	C
ATOM	1100	OG	SER A 143	20.979	76.419	36.068	1.00	19.14	A	O
ATOM	1101	C	SER A 143	20.374	74.259	34.266	1.00	16.28	A	C
ATOM	1102	O	SER A 143	19.838	73.555	35.119	1.00	17.50	A	O
ATOM	1103	N	LEU A 144	19.766	74.597	33.133	1.00	15.61	A	N
ATOM	1104	CA	LEU A 144	18.397	74.174	32.850	1.00	16.29	A	C
ATOM	1105	CB	LEU A 144	17.920	74.855	31.567	1.00	18.23	A	C
ATOM	1106	CG	LEU A 144	17.915	76.379	31.743	1.00	21.65	A	C
ATOM	1107	CD1	LEU A 144	17.543	77.079	30.440	1.00	21.02	A	C
ATOM	1108	CD2	LEU A 144	16.931	76.741	32.854	1.00	19.77	A	C
ATOM	1109	C	LEU A 144	18.171	72.657	32.772	1.00	15.16	A	C
ATOM	1110	O	LEU A 144	17.036	72.184	32.874	1.00	13.64	A	O
ATOM	1111	N	PHE A 145	19.238	71.888	32.600	1.00	13.93	A	N
ATOM	1112	CA	PHE A 145	19.080	70.437	32.545	1.00	11.95	A	C

Figure 4U

ATOM	1113	CB PHE A 145	20.436	69.742	32.374	1.00	13.43	A	C
ATOM	1114	CG PHE A 145	21.000	69.808	30.976	1.00	17.43	A	C
ATOM	1115	CD1 PHE A 145	22.248	69.260	30.703	1.00	15.45	A	C
ATOM	1116	CD2 PHE A 145	20.287	70.399	29.933	1.00	17.04	A	C
ATOM	1117	CE1 PHE A 145	22.783	69.295	29.420	1.00	18.35	A	C
ATOM	1118	CE2 PHE A 145	20.815	70.440	28.642	1.00	15.38	A	C
ATOM	1119	CZ PHE A 145	22.064	69.889	28.385	1.00	16.89	A	C
ATOM	1120	C PHE A 145	18.436	69.956	33.846	1.00	12.03	A	C
ATOM	1121	O PHE A 145	17.600	69.064	33.839	1.00	11.95	A	O
ATOM	1122	N VAL A 146	18.813	70.564	34.965	1.00	12.43	A	N
ATOM	1123	CA VAL A 146	18.269	70.150	36.255	1.00	11.55	A	C
ATOM	1124	CB VAL A 146	18.931	70.941	37.420	1.00	11.44	A	C
ATOM	1125	CG1 VAL A 146	18.203	70.669	38.739	1.00	12.27	A	C
ATOM	1126	CG2 VAL A 146	20.389	70.523	37.541	1.00	12.17	A	C
ATOM	1127	C VAL A 146	16.741	70.243	36.344	1.00	13.17	A	C
ATOM	1128	O VAL A 146	16.081	69.236	36.566	1.00	13.35	A	O
ATOM	1129	N PRO A 147	16.157	71.442	36.168	1.00	14.55	A	N
ATOM	1130	CD PRO A 147	16.725	72.794	36.014	1.00	12.51	A	C
ATOM	1131	CA PRO A 147	14.693	71.491	36.260	1.00	15.45	A	C
ATOM	1132	CB PRO A 147	14.386	72.995	36.197	1.00	16.91	A	C
ATOM	1133	CG PRO A 147	15.556	73.569	35.463	1.00	13.21	A	C
ATOM	1134	C PRO A 147	13.972	70.682	35.178	1.00	13.90	A	C
ATOM	1135	O PRO A 147	12.910	70.111	35.433	1.00	15.62	A	O
ATOM	1136	N LEU A 148	14.549	70.614	33.982	1.00	11.79	A	N
ATOM	1137	CA LEU A 148	13.929	69.844	32.911	1.00	13.83	A	C
ATOM	1138	CB LEU A 148	14.748	69.947	31.620	1.00	15.89	A	C
ATOM	1139	CG LEU A 148	14.193	70.877	30.540	1.00	14.82	A	C
ATOM	1140	CD1 LEU A 148	14.146	72.296	31.057	1.00	18.80	A	C
ATOM	1141	CD2 LEU A 148	15.070	70.792	29.300	1.00	16.16	A	C
ATOM	1142	C LEU A 148	13.833	68.389	33.336	1.00	13.84	A	C
ATOM	1143	O LEU A 148	12.786	67.755	33.204	1.00	15.22	A	O
ATOM	1144	N ILE A 149	14.935	67.872	33.861	1.00	12.81	A	N
ATOM	1145	CA ILE A 149	14.985	66.493	34.312	1.00	13.21	A	C
ATOM	1146	CB ILE A 149	16.425	66.111	34.703	1.00	14.51	A	C
ATOM	1147	CG2 ILE A 149	16.444	64.756	35.402	1.00	12.63	A	C
ATOM	1148	CG1 ILE A 149	17.291	66.093	33.434	1.00	15.10	A	C
ATOM	1149	CD1 ILE A 149	18.777	65.893	33.673	1.00	10.57	A	C
ATOM	1150	C ILE A 149	14.026	66.258	35.470	1.00	14.45	A	C
ATOM	1151	O ILE A 149	13.425	65.195	35.571	1.00	15.79	A	O
ATOM	1152	N GLU A 150	13.859	67.256	36.328	1.00	14.06	A	N
ATOM	1153	CA GLU A 150	12.943	67.121	37.449	1.00	15.01	A	C
ATOM	1154	CB GLU A 150	13.206	68.228	38.466	1.00	18.77	A	C
ATOM	1155	CG GLU A 150	14.447	67.930	39.291	1.00	26.06	A	C
ATOM	1156	CD GLU A 150	14.824	69.044	40.227	1.00	28.16	A	C
ATOM	1157	OE1 GLU A 150	15.731	68.821	41.056	1.00	26.46	A	O
ATOM	1158	OE2 GLU A 150	14.222	70.138	40.128	1.00	31.52	A	O
ATOM	1159	C GLU A 150	11.481	67.116	37.000	1.00	15.40	A	C
ATOM	1160	O GLU A 150	10.615	66.617	37.719	1.00	14.17	A	O
ATOM	1161	N GLU A 151	11.212	67.680	35.822	1.00	13.23	A	N
ATOM	1162	CA GLU A 151	9.860	67.703	35.265	1.00	15.55	A	C
ATOM	1163	CB GLU A 151	9.619	68.971	34.442	1.00	16.54	A	C
ATOM	1164	CG GLU A 151	9.533	70.248	35.267	1.00	20.37	A	C
ATOM	1165	CD GLU A 151	8.528	70.151	36.401	1.00	23.39	A	C
ATOM	1166	OE1 GLU A 151	7.332	69.901	36.134	1.00	24.54	A	O
ATOM	1167	OE2 GLU A 151	8.937	70.326	37.566	1.00	27.18	A	O
ATOM	1168	C GLU A 151	9.687	66.487	34.368	1.00	17.22	A	C
ATOM	1169	O GLU A 151	8.668	66.331	33.687	1.00	16.37	A	O
ATOM	1170	N SER A 152	10.702	65.632	34.376	1.00	18.04	A	N

Figure 4V

ATOM	1171	CA	SER A 152	10.722	64.413	33.578	1.00	18.02	A	C
ATOM	1172	CB	SER A 152	9.559	63.493	33.949	1.00	19.94	A	C
ATOM	1173	OG	SER A 152	9.768	62.207	33.390	1.00	18.81	A	O
ATOM	1174	C	SER A 152	10.699	64.673	32.081	1.00	20.44	A	C
ATOM	1175	O	SER A 152	10.013	63.980	31.323	1.00	22.59	A	O
ATOM	1176	N	ILE A 153	11.443	65.682	31.653	1.00	19.73	A	N
ATOM	1177	CA	ILE A 153	11.541	65.998	30.239	1.00	21.13	A	C
ATOM	1178	CB	ILE A 153	11.541	67.521	30.016	1.00	23.26	A	C
ATOM	1179	CG2	ILE A 153	11.800	67.846	28.546	1.00	22.78	A	C
ATOM	1180	CG1	ILE A 153	10.190	68.086	30.474	1.00	25.17	A	C
ATOM	1181	CD1	ILE A 153	10.005	69.547	30.207	1.00	30.23	A	C
ATOM	1182	C	ILE A 153	12.865	65.372	29.832	1.00	21.67	A	C
ATOM	1183	O	ILE A 153	13.900	66.037	29.784	1.00	20.32	A	O
ATOM	1184	N	LEU A 154	12.811	64.069	29.565	1.00	18.75	A	N
ATOM	1185	CA	LEU A 154	13.986	63.281	29.218	1.00	20.85	A	C
ATOM	1186	CB	LEU A 154	13.939	61.972	30.003	1.00	21.22	A	C
ATOM	1187	CG	LEU A 154	13.540	62.197	31.467	1.00	22.53	A	C
ATOM	1188	CD1	LEU A 154	13.353	60.868	32.182	1.00	21.31	A	C
ATOM	1189	CD2	LEU A 154	14.604	63.040	32.154	1.00	20.71	A	C
ATOM	1190	C	LEU A 154	14.131	62.994	27.726	1.00	21.27	A	C
ATOM	1191	O	LEU A 154	14.969	62.194	27.313	1.00	20.75	A	O
ATOM	1192	N	GLU A 155	13.302	63.649	26.927	1.00	23.77	A	N
ATOM	1193	CA	GLU A 155	13.333	63.499	25.478	1.00	26.10	A	C
ATOM	1194	CB	GLU A 155	12.948	62.069	25.074	1.00	30.66	A	C
ATOM	1195	CG	GLU A 155	11.661	61.554	25.686	1.00	38.37	A	C
ATOM	1196	CD	GLU A 155	10.445	61.898	24.860	1.00	42.76	A	C
ATOM	1197	OE1	GLU A 155	9.322	61.571	25.299	1.00	48.12	A	O
ATOM	1198	OE2	GLU A 155	10.609	62.488	23.771	1.00	46.52	A	O
ATOM	1199	C	GLU A 155	12.366	64.517	24.893	1.00	24.72	A	C
ATOM	1200	O	GLU A 155	11.759	65.288	25.633	1.00	23.59	A	O
ATOM	1201	N	GLY A 156	12.236	64.538	23.573	1.00	23.02	A	N
ATOM	1202	CA	GLY A 156	11.333	65.492	22.958	1.00	21.08	A	C
ATOM	1203	C	GLY A 156	12.047	66.742	22.485	1.00	22.30	A	C
ATOM	1204	O	GLY A 156	13.243	66.925	22.728	1.00	21.15	A	O
ATOM	1205	N	GLU A 157	11.299	67.612	21.817	1.00	20.99	A	N
ATOM	1206	CA	GLU A 157	11.847	68.844	21.268	1.00	22.12	A	C
ATOM	1207	CB	GLU A 157	10.786	69.539	20.412	1.00	25.41	A	C
ATOM	1208	CG	GLU A 157	11.366	70.505	19.398	1.00	32.26	A	C
ATOM	1209	CD	GLU A 157	10.304	71.341	18.720	1.00	37.00	A	C
ATOM	1210	OE1	GLU A 157	9.332	70.758	18.186	1.00	41.42	A	O
ATOM	1211	OE2	GLU A 157	10.443	72.583	18.719	1.00	39.91	A	O
ATOM	1212	C	GLU A 157	12.386	69.835	22.302	1.00	19.65	A	C
ATOM	1213	O	GLU A 157	13.377	70.518	22.053	1.00	18.65	A	O
ATOM	1214	N	LEU A 158	11.734	69.925	23.453	1.00	18.49	A	N
ATOM	1215	CA	LEU A 158	12.172	70.861	24.485	1.00	20.02	A	C
ATOM	1216	CB	LEU A 158	11.174	70.870	25.653	1.00	19.53	A	C
ATOM	1217	CG	LEU A 158	11.410	71.891	26.773	1.00	21.01	A	C
ATOM	1218	CD1	LEU A 158	11.661	73.280	26.191	1.00	20.32	A	C
ATOM	1219	CD2	LEU A 158	10.197	71.910	27.697	1.00	19.63	A	C
ATOM	1220	C	LEU A 158	13.581	70.529	24.976	1.00	17.50	A	C
ATOM	1221	O	LEU A 158	14.424	71.417	25.101	1.00	17.99	A	O
ATOM	1222	N	LEU A 159	13.846	69.253	25.240	1.00	18.72	A	N
ATOM	1223	CA	LEU A 159	15.180	68.856	25.693	1.00	17.84	A	C
ATOM	1224	CB	LEU A 159	15.202	67.377	26.105	1.00	17.62	A	C
ATOM	1225	CG	LEU A 159	16.585	66.818	26.488	1.00	16.01	A	C
ATOM	1226	CD1	LEU A 159	17.125	67.557	27.713	1.00	16.76	A	C
ATOM	1227	CD2	LEU A 159	16.478	65.324	26.775	1.00	16.92	A	C
ATOM	1228	C	LEU A 159	16.185	69.091	24.571	1.00	18.06	A	C

Figure 4W

ATOM	1229	O	LEU A 159	17.274	69.629	24.792	1.00	15.90	A	O
ATOM	1230	N	GLU A 160	15.805	68.686	23.363	1.00	17.23	A	N
ATOM	1231	CA	GLU A 160	16.660	68.846	22.199	1.00	19.74	A	C
ATOM	1232	CB	GLU A 160	15.936	68.322	20.951	1.00	22.63	A	C
ATOM	1233	CG	GLU A 160	16.613	68.624	19.612	1.00	25.09	A	C
ATOM	1234	CD	GLU A 160	18.020	68.058	19.496	1.00	28.46	A	C
ATOM	1235	OE1	GLU A 160	18.320	67.041	20.156	1.00	24.99	A	O
ATOM	1236	OE2	GLU A 160	18.824	68.626	18.725	1.00	29.33	A	O
ATOM	1237	C	GLU A 160	17.025	70.316	22.023	1.00	17.75	A	C
ATOM	1238	O	GLU A 160	18.188	70.655	21.795	1.00	17.75	A	O
ATOM	1239	N	THR A 161	16.031	71.188	22.140	1.00	15.91	A	N
ATOM	1240	CA	THR A 161	16.274	72.615	21.984	1.00	17.08	A	C
ATOM	1241	CB	THR A 161	14.955	73.402	21.946	1.00	19.03	A	C
ATOM	1242	OG1	THR A 161	14.165	72.943	20.841	1.00	18.83	A	O
ATOM	1243	CG2	THR A 161	15.225	74.888	21.770	1.00	18.63	A	C
ATOM	1244	C	THR A 161	17.159	73.154	23.104	1.00	16.80	A	C
ATOM	1245	O	THR A 161	17.998	74.029	22.875	1.00	16.81	A	O
ATOM	1246	N	CYS A 162	16.977	72.623	24.309	1.00	15.47	A	N
ATOM	1247	CA	CYS A 162	17.772	73.054	25.451	1.00	16.48	A	C
ATOM	1248	CB	CYS A 162	17.217	72.456	26.748	1.00	17.44	A	C
ATOM	1249	SG	CYS A 162	17.994	73.125	28.246	1.00	17.16	A	S
ATOM	1250	C	CYS A 162	19.226	72.624	25.264	1.00	16.12	A	C
ATOM	1251	O	CYS A 162	20.148	73.390	25.547	1.00	15.64	A	O
ATOM	1252	N	MET A 163	19.433	71.395	24.797	1.00	16.12	A	N
ATOM	1253	CA	MET A 163	20.792	70.913	24.578	1.00	16.90	A	C
ATOM	1254	CB	MET A 163	20.796	69.446	24.152	1.00	17.54	A	C
ATOM	1255	CG	MET A 163	20.259	68.491	25.198	1.00	18.15	A	C
ATOM	1256	SD	MET A 163	20.679	66.775	24.864	1.00	18.78	A	S
ATOM	1257	CE	MET A 163	19.539	66.408	23.514	1.00	18.51	A	C
ATOM	1258	C	MET A 163	21.427	71.760	23.483	1.00	16.80	A	C
ATOM	1259	O	MET A 163	22.601	72.109	23.554	1.00	17.90	A	O
ATOM	1260	N	HIS A 164	20.637	72.083	22.467	1.00	17.35	A	N
ATOM	1261	CA	HIS A 164	21.119	72.893	21.359	1.00	18.77	A	C
ATOM	1262	CB	HIS A 164	20.009	73.065	20.317	1.00	21.03	A	C
ATOM	1263	CG	HIS A 164	20.451	73.784	19.082	1.00	26.61	A	C
ATOM	1264	CD2	HIS A 164	20.862	73.317	17.879	1.00	27.02	A	C
ATOM	1265	ND1	HIS A 164	20.559	75.156	19.018	1.00	26.82	A	N
ATOM	1266	CE1	HIS A 164	21.020	75.503	17.829	1.00	28.20	A	C
ATOM	1267	NE2	HIS A 164	21.212	74.406	17.119	1.00	26.69	A	N
ATOM	1268	C	HIS A 164	21.573	74.249	21.872	1.00	17.93	A	C
ATOM	1269	O	HIS A 164	22.630	74.758	21.483	1.00	18.32	A	O
ATOM	1270	N	TYR A 165	20.775	74.821	22.765	1.00	16.78	A	N
ATOM	1271	CA	TYR A 165	21.073	76.120	23.352	1.00	17.03	A	C
ATOM	1272	CB	TYR A 165	20.004	76.486	24.383	1.00	16.70	A	C
ATOM	1273	CG	TYR A 165	20.323	77.728	25.186	1.00	14.36	A	C
ATOM	1274	CD1	TYR A 165	20.249	78.998	24.611	1.00	18.03	A	C
ATOM	1275	CE1	TYR A 165	20.567	80.144	25.350	1.00	17.68	A	C
ATOM	1276	CD2	TYR A 165	20.722	77.633	26.518	1.00	15.98	A	C
ATOM	1277	CE2	TYR A 165	21.042	78.767	27.263	1.00	15.67	A	C
ATOM	1278	CZ	TYR A 165	20.964	80.015	26.675	1.00	17.67	A	C
ATOM	1279	OH	TYR A 165	21.296	81.128	27.414	1.00	19.35	A	O
ATOM	1280	C	TYR A 165	22.440	76.144	24.025	1.00	18.18	A	C
ATOM	1281	O	TYR A 165	23.202	77.089	23.848	1.00	18.56	A	O
ATOM	1282	N	TYR A 166	22.745	75.101	24.795	1.00	16.65	A	N
ATOM	1283	CA	TYR A 166	24.016	75.022	25.516	1.00	16.14	A	C
ATOM	1284	CB	TYR A 166	23.879	74.113	26.745	1.00	15.22	A	C
ATOM	1285	CG	TYR A 166	23.063	74.681	27.887	1.00	14.44	A	C
ATOM	1286	CD1	TYR A 166	21.955	73.994	28.380	1.00	13.39	A	C

Figure 4X

ATOM	1287	CE1 TYR A 166	21.202	74.506	29.438	1.00	14.31	A	C
ATOM	1288	CD2 TYR A 166	23.403	75.898	28.481	1.00	14.07	A	C
ATOM	1289	CE2 TYR A 166	22.660	76.419	29.537	1.00	13.27	A	C
ATOM	1290	CZ TYR A 166	21.558	75.717	30.008	1.00	15.59	A	C
ATOM	1291	OH TYR A 166	20.800	76.228	31.033	1.00	13.70	A	O
ATOM	1292	C TYR A 166	25.207	74.520	24.710	1.00	16.15	A	C
ATOM	1293	O TYR A 166	26.320	75.020	24.862	1.00	18.32	A	O
ATOM	1294	N PHE A 167	24.977	73.532	23.858	1.00	16.40	A	N
ATOM	1295	CA PHE A 167	26.063	72.926	23.099	1.00	19.32	A	C
ATOM	1296	CB PHE A 167	25.696	71.466	22.811	1.00	18.55	A	C
ATOM	1297	CG PHE A 167	25.487	70.633	24.056	1.00	17.57	A	C
ATOM	1298	CD1 PHE A 167	24.611	69.551	24.044	1.00	17.73	A	C
ATOM	1299	CD2 PHE A 167	26.179	70.920	25.232	1.00	17.53	A	C
ATOM	1300	CE1 PHE A 167	24.429	68.766	25.186	1.00	17.59	A	C
ATOM	1301	CE2 PHE A 167	26.005	70.140	26.378	1.00	15.09	A	C
ATOM	1302	CZ PHE A 167	25.130	69.063	26.354	1.00	15.31	A	C
ATOM	1303	C PHE A 167	26.517	73.613	21.810	1.00	21.91	A	C
ATOM	1304	O PHE A 167	27.693	73.529	21.444	1.00	18.63	A	O
ATOM	1305	N THR A 168	25.600	74.293	21.128	1.00	23.53	A	N
ATOM	1306	CA THR A 168	25.940	74.958	19.871	1.00	25.11	A	C
ATOM	1307	CB THR A 168	24.757	75.788	19.346	1.00	24.47	A	C
ATOM	1308	OG1 THR A 168	23.646	74.919	19.099	1.00	28.03	A	O
ATOM	1309	CG2 THR A 168	25.133	76.488	18.048	1.00	28.49	A	C
ATOM	1310	C THR A 168	27.182	75.849	19.920	1.00	24.43	A	C
ATOM	1311	O THR A 168	27.989	75.836	18.995	1.00	26.62	A	O
ATOM	1312	N PRO A 169	27.347	76.640	20.992	1.00	25.87	A	N
ATOM	1313	CD PRO A 169	26.337	76.983	22.009	1.00	23.89	A	C
ATOM	1314	CA PRO A 169	28.512	77.523	21.113	1.00	28.42	A	C
ATOM	1315	CB PRO A 169	28.198	78.329	22.372	1.00	25.95	A	C
ATOM	1316	CG PRO A 169	26.709	78.406	22.351	1.00	26.22	A	C
ATOM	1317	C PRO A 169	29.868	76.813	21.210	1.00	30.41	A	C
ATOM	1318	O PRO A 169	30.914	77.440	21.035	1.00	30.45	A	O
ATOM	1319	N LEU A 170	29.853	75.512	21.487	1.00	32.27	A	N
ATOM	1320	CA LEU A 170	31.094	74.755	21.611	1.00	34.59	A	C
ATOM	1321	CB LEU A 170	30.808	73.338	22.098	1.00	33.83	A	C
ATOM	1322	CG LEU A 170	30.417	73.202	23.568	1.00	32.01	A	C
ATOM	1323	CD1 LEU A 170	30.035	71.760	23.848	1.00	29.69	A	C
ATOM	1324	CD2 LEU A 170	31.579	73.641	24.458	1.00	29.22	A	C
ATOM	1325	C LEU A 170	31.897	74.677	20.323	1.00	37.74	A	C
ATOM	1326	O LEU A 170	31.358	74.386	19.254	1.00	39.31	A	O
ATOM	1327	N GLU A 171	33.197	74.924	20.434	1.00	40.03	A	N
ATOM	1328	CA GLU A 171	34.076	74.871	19.276	1.00	43.34	A	C
ATOM	1329	CB GLU A 171	34.750	76.229	19.067	1.00	48.27	A	C
ATOM	1330	CG GLU A 171	33.759	77.349	18.782	1.00	54.56	A	C
ATOM	1331	CD GLU A 171	33.072	77.200	17.431	1.00	59.45	A	C
ATOM	1332	OE1 GLU A 171	32.919	76.051	16.953	1.00	60.27	A	O
ATOM	1333	OE2 GLU A 171	32.672	78.237	16.852	1.00	61.77	A	O
ATOM	1334	C GLU A 171	35.120	73.777	19.447	1.00	42.59	A	C
ATOM	1335	O GLU A 171	36.239	73.888	18.951	1.00	43.77	A	O
ATOM	1336	N ILE A 172	34.741	72.717	20.155	1.00	40.35	A	N
ATOM	1337	CA ILE A 172	35.636	71.589	20.391	1.00	38.22	A	C
ATOM	1338	CB ILE A 172	36.155	71.569	21.842	1.00	37.75	A	C
ATOM	1339	CG2 ILE A 172	36.806	72.901	22.184	1.00	34.13	A	C
ATOM	1340	CG1 ILE A 172	34.997	71.276	22.797	1.00	36.28	A	C
ATOM	1341	CD1 ILE A 172	35.430	70.993	24.225	1.00	40.90	A	C
ATOM	1342	C ILE A 172	34.911	70.272	20.145	1.00	36.42	A	C
ATOM	1343	O ILE A 172	33.688	70.200	20.222	1.00	39.20	A	O
ATOM	1344	N LEU A 173	35.674	69.231	19.838	1.00	34.80	A	N

Figure 4Y

ATOM	1345	CA	LEU A 173	35.104	67.910	19.612	1.00	32.15	A	C
ATOM	1346	CB	LEU A 173	35.718	67.265	18.363	1.00	33.04	A	C
ATOM	1347	CG	LEU A 173	35.480	67.998	17.037	1.00	34.61	A	C
ATOM	1348	CD1	LEU A 173	36.221	67.290	15.910	1.00	33.74	A	C
ATOM	1349	CD2	LEU A 173	33.979	68.056	16.747	1.00	34.77	A	C
ATOM	1350	C	LEU A 173	35.454	67.102	20.855	1.00	29.45	A	C
ATOM	1351	O	LEU A 173	36.481	66.424	20.896	1.00	27.62	A	O
ATOM	1352	N	PRO A 174	34.598	67.167	21.891	1.00	27.18	A	N
ATOM	1353	CD	PRO A 174	33.272	67.811	21.931	1.00	26.43	A	C
ATOM	1354	CA	PRO A 174	34.858	66.432	23.132	1.00	24.33	A	C
ATOM	1355	CB	PRO A 174	33.646	66.772	24.003	1.00	25.04	A	C
ATOM	1356	CG	PRO A 174	32.560	67.015	22.997	1.00	27.39	A	C
ATOM	1357	C	PRO A 174	35.067	64.934	22.991	1.00	21.39	A	C
ATOM	1358	O	PRO A 174	34.335	64.250	22.277	1.00	22.17	A	O
ATOM	1359	N	GLU A 175	36.088	64.438	23.679	1.00	19.42	A	N
ATOM	1360	CA	GLU A 175	36.405	63.021	23.683	1.00	19.85	A	C
ATOM	1361	CB	GLU A 175	37.905	62.821	23.465	1.00	21.90	A	C
ATOM	1362	CG	GLU A 175	38.320	62.869	21.999	1.00	27.70	A	C
ATOM	1363	CD	GLU A 175	39.823	62.943	21.802	1.00	27.64	A	C
ATOM	1364	OE1	GLU A 175	40.565	62.242	22.523	1.00	28.19	A	O
ATOM	1365	OE2	GLU A 175	40.260	63.701	20.913	1.00	30.42	A	O
ATOM	1366	C	GLU A 175	35.983	62.473	25.044	1.00	19.80	A	C
ATOM	1367	O	GLU A 175	35.855	61.263	25.239	1.00	19.75	A	O
ATOM	1368	N	VAL A 176	35.762	63.383	25.986	1.00	18.80	A	N
ATOM	1369	CA	VAL A 176	35.349	63.006	27.330	1.00	17.58	A	C
ATOM	1370	CB	VAL A 176	36.550	62.981	28.313	1.00	16.92	A	C
ATOM	1371	CG1	VAL A 176	36.091	62.488	29.676	1.00	15.99	A	C
ATOM	1372	CG2	VAL A 176	37.661	62.087	27.772	1.00	16.67	A	C
ATOM	1373	C	VAL A 176	34.330	64.014	27.840	1.00	16.96	A	C
ATOM	1374	O	VAL A 176	34.533	65.224	27.746	1.00	17.95	A	O
ATOM	1375	N	ILE A 177	33.222	63.509	28.362	1.00	17.35	A	N
ATOM	1376	CA	ILE A 177	32.184	64.373	28.902	1.00	15.36	A	C
ATOM	1377	CB	ILE A 177	30.873	64.272	28.100	1.00	15.94	A	C
ATOM	1378	CG2	ILE A 177	29.805	65.149	28.759	1.00	14.07	A	C
ATOM	1379	CG1	ILE A 177	31.113	64.699	26.647	1.00	17.19	A	C
ATOM	1380	CD1	ILE A 177	29.880	64.597	25.748	1.00	18.12	A	C
ATOM	1381	C	ILE A 177	31.896	63.970	30.334	1.00	14.25	A	C
ATOM	1382	O	ILE A 177	31.499	62.833	30.609	1.00	15.75	A	O
ATOM	1383	N	ILE A 178	32.108	64.900	31.253	1.00	14.90	A	N
ATOM	1384	CA	ILE A 178	31.841	64.618	32.647	1.00	12.36	A	C
ATOM	1385	CB	ILE A 178	32.770	65.419	33.573	1.00	14.08	A	C
ATOM	1386	CG2	ILE A 178	32.465	65.085	35.026	1.00	10.97	A	C
ATOM	1387	CG1	ILE A 178	34.229	65.095	33.248	1.00	13.91	A	C
ATOM	1388	CD1	ILE A 178	35.235	65.846	34.106	1.00	13.08	A	C
ATOM	1389	C	ILE A 178	30.396	64.988	32.950	1.00	12.88	A	C
ATOM	1390	O	ILE A 178	29.949	66.103	32.671	1.00	13.50	A	O
ATOM	1391	N	LEU A 179	29.659	64.038	33.506	1.00	12.90	A	N
ATOM	1392	CA	LEU A 179	28.270	64.288	33.867	1.00	14.35	A	C
ATOM	1393	CB	LEU A 179	27.465	62.992	33.717	1.00	14.31	A	C
ATOM	1394	CG	LEU A 179	27.542	62.418	32.298	1.00	15.12	A	C
ATOM	1395	CD1	LEU A 179	26.919	61.033	32.251	1.00	20.10	A	C
ATOM	1396	CD2	LEU A 179	26.844	63.361	31.336	1.00	20.25	A	C
ATOM	1397	C	LEU A 179	28.320	64.760	35.319	1.00	13.67	A	C
ATOM	1398	O	LEU A 179	27.829	64.085	36.224	1.00	15.54	A	O
ATOM	1399	N	GLY A 180	28.930	65.931	35.512	1.00	11.65	A	N
ATOM	1400	CA	GLY A 180	29.117	66.517	36.834	1.00	12.90	A	C
ATOM	1401	C	GLY A 180	27.910	67.040	37.593	1.00	10.74	A	C
ATOM	1402	O	GLY A 180	27.955	68.116	38.191	1.00	12.43	A	O

Figure 4Z

ATOM	1403	N	CYS A 181	26.835	66.267	37.589	1.00	11.19	A	N
ATOM	1404	CA	CYS A 181	25.608	66.640	38.287	1.00	12.85	A	C
ATOM	1405	CB	CYS A 181	24.832	67.662	37.455	1.00	10.63	A	C
ATOM	1406	SG	CYS A 181	23.232	68.156	38.139	1.00	12.80	A	S
ATOM	1407	C	CYS A 181	24.769	65.379	38.482	1.00	10.40	A	C
ATOM	1408	O	CYS A 181	24.655	64.567	37.565	1.00	12.33	A	O
ATOM	1409	N	THR A 182	24.195	65.218	39.673	1.00	11.84	A	N
ATOM	1410	CA	THR A 182	23.374	64.050	39.993	1.00	10.35	A	C
ATOM	1411	CB	THR A 182	22.661	64.207	41.363	1.00	10.67	A	C
ATOM	1412	OG1	THR A 182	21.912	65.435	41.381	1.00	8.58	A	O
ATOM	1413	CG2	THR A 182	23.672	64.197	42.500	1.00	7.64	A	C
ATOM	1414	C	THR A 182	22.283	63.760	38.966	1.00	11.06	A	C
ATOM	1415	O	THR A 182	21.936	62.610	38.733	1.00	10.76	A	O
ATOM	1416	N	HIS A 183	21.739	64.810	38.364	1.00	9.82	A	N
ATOM	1417	CA	HIS A 183	20.649	64.666	37.400	1.00	12.23	A	C
ATOM	1418	CB	HIS A 183	19.884	65.990	37.276	1.00	10.20	A	C
ATOM	1419	CG	HIS A 183	19.136	66.386	38.510	1.00	10.97	A	C
ATOM	1420	CD2	HIS A 183	17.905	66.930	38.668	1.00	7.50	A	C
ATOM	1421	ND1	HIS A 183	19.677	66.290	39.774	1.00	11.77	A	N
ATOM	1422	CE1	HIS A 183	18.812	66.758	40.658	1.00	10.61	A	C
ATOM	1423	NE2	HIS A 183	17.729	67.154	40.012	1.00	10.59	A	N
ATOM	1424	C	HIS A 183	21.020	64.221	35.990	1.00	10.73	A	C
ATOM	1425	O	HIS A 183	20.228	63.569	35.323	1.00	12.38	A	O
ATOM	1426	N	PHE A 184	22.221	64.570	35.545	1.00	12.86	A	N
ATOM	1427	CA	PHE A 184	22.645	64.280	34.180	1.00	12.13	A	C
ATOM	1428	CB	PHE A 184	23.988	64.976	33.925	1.00	11.91	A	C
ATOM	1429	CG	PHE A 184	23.927	66.488	34.096	1.00	11.77	A	C
ATOM	1430	CD1	PHE A 184	25.057	67.276	33.896	1.00	13.67	A	C
ATOM	1431	CD2	PHE A 184	22.739	67.116	34.482	1.00	9.45	A	C
ATOM	1432	CE1	PHE A 184	25.009	68.666	34.081	1.00	11.33	A	C
ATOM	1433	CE2	PHE A 184	22.681	68.502	34.670	1.00	12.83	A	C
ATOM	1434	CZ	PHE A 184	23.819	69.278	34.469	1.00	9.95	A	C
ATOM	1435	C	PHE A 184	22.655	62.833	33.670	1.00	12.53	A	C
ATOM	1436	O	PHE A 184	22.429	62.596	32.481	1.00	14.09	A	O
ATOM	1437	N	PRO A 185	22.902	61.847	34.545	1.00	13.81	A	N
ATOM	1438	CD	PRO A 185	23.442	61.881	35.918	1.00	14.48	A	C
ATOM	1439	CA	PRO A 185	22.893	60.475	34.026	1.00	13.96	A	C
ATOM	1440	CB	PRO A 185	23.165	59.640	35.275	1.00	14.58	A	C
ATOM	1441	CG	PRO A 185	24.112	60.522	36.032	1.00	12.13	A	C
ATOM	1442	C	PRO A 185	21.554	60.121	33.367	1.00	15.04	A	C
ATOM	1443	O	PRO A 185	21.492	59.261	32.489	1.00	13.75	A	O
ATOM	1444	N	LEU A 186	20.485	60.790	33.791	1.00	13.98	A	N
ATOM	1445	CA	LEU A 186	19.156	60.525	33.243	1.00	13.19	A	C
ATOM	1446	CB	LEU A 186	18.080	61.193	34.108	1.00	13.71	A	C
ATOM	1447	CG	LEU A 186	17.634	60.379	35.334	1.00	15.55	A	C
ATOM	1448	CD1	LEU A 186	18.802	60.174	36.288	1.00	18.92	A	C
ATOM	1449	CD2	LEU A 186	16.493	61.099	36.027	1.00	14.26	A	C
ATOM	1450	C	LEU A 186	18.982	60.931	31.778	1.00	14.41	A	C
ATOM	1451	O	LEU A 186	18.010	60.533	31.137	1.00	14.59	A	O
ATOM	1452	N	ILE A 187	19.905	61.734	31.255	1.00	14.30	A	N
ATOM	1453	CA	ILE A 187	19.854	62.140	29.849	1.00	14.33	A	C
ATOM	1454	CB	ILE A 187	19.485	63.633	29.667	1.00	13.17	A	C
ATOM	1455	CG2	ILE A 187	18.052	63.871	30.096	1.00	11.03	A	C
ATOM	1456	CG1	ILE A 187	20.446	64.523	30.453	1.00	12.17	A	C
ATOM	1457	CD1	ILE A 187	20.256	66.011	30.170	1.00	14.07	A	C
ATOM	1458	C	ILE A 187	21.197	61.890	29.168	1.00	14.64	A	C
ATOM	1459	O	ILE A 187	21.487	62.447	28.108	1.00	13.68	A	O
ATOM	1460	N	ALA A 188	22.008	61.035	29.781	1.00	15.37	A	N

Figure 4AA

ATOM	1461	CA	ALA A 188	23.322	60.707	29.243	1.00	16.86	A	C
ATOM	1462	CB	ALA A 188	23.965	59.607	30.075	1.00	15.17	A	C
ATOM	1463	C	ALA A 188	23.244	60.280	27.776	1.00	17.17	A	C
ATOM	1464	O	ALA A 188	23.979	60.797	26.938	1.00	15.74	A	O
ATOM	1465	N	GLN A 189	22.353	59.340	27.470	1.00	17.32	A	N
ATOM	1466	CA	GLN A 189	22.203	58.857	26.101	1.00	18.82	A	C
ATOM	1467	CB	GLN A 189	21.162	57.741	26.050	1.00	23.61	A	C
ATOM	1468	CG	GLN A 189	21.199	56.919	24.774	1.00	30.80	A	C
ATOM	1469	CD	GLN A 189	22.592	56.391	24.458	1.00	36.03	A	C
ATOM	1470	OE1	GLN A 189	23.321	55.942	25.347	1.00	36.39	A	O
ATOM	1471	NE2	GLN A 189	22.965	56.435	23.184	1.00	38.93	A	N
ATOM	1472	C	GLN A 189	21.794	59.995	25.169	1.00	17.49	A	C
ATOM	1473	O	GLN A 189	22.280	60.092	24.041	1.00	17.22	A	O
ATOM	1474	N	LYS A 190	20.894	60.851	25.639	1.00	17.64	A	N
ATOM	1475	CA	LYS A 190	20.449	61.986	24.841	1.00	16.93	A	C
ATOM	1476	CB	LYS A 190	19.338	62.750	25.565	1.00	17.51	A	C
ATOM	1477	CG	LYS A 190	17.998	62.038	25.578	1.00	21.98	A	C
ATOM	1478	CD	LYS A 190	17.462	61.852	24.166	1.00	25.56	A	C
ATOM	1479	CE	LYS A 190	16.064	61.256	24.188	1.00	30.02	A	C
ATOM	1480	NZ	LYS A 190	15.428	61.242	22.839	1.00	32.59	A	N
ATOM	1481	C	LYS A 190	21.624	62.919	24.572	1.00	17.12	A	C
ATOM	1482	O	LYS A 190	21.755	63.468	23.481	1.00	19.51	A	O
ATOM	1483	N	ILE A 191	22.483	63.097	25.570	1.00	15.92	A	N
ATOM	1484	CA	ILE A 191	23.643	63.963	25.413	1.00	15.53	A	C
ATOM	1485	CB	ILE A 191	24.348	64.194	26.769	1.00	16.74	A	C
ATOM	1486	CG2	ILE A 191	25.698	64.877	26.558	1.00	17.54	A	C
ATOM	1487	CG1	ILE A 191	23.447	65.048	27.668	1.00	16.67	A	C
ATOM	1488	CD1	ILE A 191	24.051	65.372	29.014	1.00	17.95	A	C
ATOM	1489	C	ILE A 191	24.615	63.350	24.413	1.00	17.26	A	C
ATOM	1490	O	ILE A 191	25.099	64.027	23.508	1.00	16.51	A	O
ATOM	1491	N	GLU A 192	24.892	62.062	24.566	1.00	17.44	A	N
ATOM	1492	CA	GLU A 192	25.792	61.387	23.643	1.00	18.42	A	C
ATOM	1493	CB	GLU A 192	25.937	59.909	24.007	1.00	20.11	A	C
ATOM	1494	CG	GLU A 192	26.885	59.159	23.085	1.00	26.76	A	C
ATOM	1495	CD	GLU A 192	26.872	57.665	23.322	1.00	32.66	A	C
ATOM	1496	OE1	GLU A 192	25.884	57.005	22.936	1.00	37.07	A	O
ATOM	1497	OE2	GLU A 192	27.846	57.152	23.906	1.00	37.14	A	O
ATOM	1498	C	GLU A 192	25.209	61.499	22.241	1.00	17.46	A	C
ATOM	1499	O	GLU A 192	25.912	61.804	21.283	1.00	15.49	A	O
ATOM	1500	N	GLY A 193	23.910	61.249	22.136	1.00	19.60	A	N
ATOM	1501	CA	GLY A 193	23.247	61.319	20.851	1.00	18.22	A	C
ATOM	1502	C	GLY A 193	23.344	62.683	20.199	1.00	20.98	A	C
ATOM	1503	O	GLY A 193	23.518	62.781	18.983	1.00	19.02	A	O
ATOM	1504	N	TYR A 194	23.230	63.742	20.997	1.00	19.99	A	N
ATOM	1505	CA	TYR A 194	23.302	65.087	20.450	1.00	19.30	A	C
ATOM	1506	CB	TYR A 194	23.081	66.136	21.545	1.00	21.79	A	C
ATOM	1507	CG	TYR A 194	23.038	67.544	20.997	1.00	22.73	A	C
ATOM	1508	CD1	TYR A 194	21.822	68.170	20.713	1.00	25.33	A	C
ATOM	1509	CE1	TYR A 194	21.784	69.442	20.133	1.00	26.15	A	C
ATOM	1510	CD2	TYR A 194	24.216	68.226	20.692	1.00	24.23	A	C
ATOM	1511	CE2	TYR A 194	24.190	69.493	20.109	1.00	23.26	A	C
ATOM	1512	CZ	TYR A 194	22.973	70.092	19.830	1.00	25.26	A	C
ATOM	1513	OH	TYR A 194	22.941	71.327	19.222	1.00	28.86	A	O
ATOM	1514	C	TYR A 194	24.660	65.313	19.788	1.00	20.71	A	C
ATOM	1515	O	TYR A 194	24.738	65.782	18.653	1.00	18.94	A	O
ATOM	1516	N	PHE A 195	25.732	64.980	20.496	1.00	19.26	A	N
ATOM	1517	CA	PHE A 195	27.062	65.169	19.942	1.00	21.38	A	C
ATOM	1518	CB	PHE A 195	28.126	64.952	21.020	1.00	20.73	A	C

Figure 4BB

ATOM	1519	CG PHE A 195	28.251	66.103	21.971	1.00	20.61	A	C
ATOM	1520	CD1 PHE A 195	27.488	66.158	23.131	1.00	19.23	A	C
ATOM	1521	CD2 PHE A 195	29.097	67.165	21.673	1.00	21.43	A	C
ATOM	1522	CE1 PHE A 195	27.565	67.263	23.986	1.00	20.28	A	C
ATOM	1523	CE2 PHE A 195	29.183	68.273	22.515	1.00	18.52	A	C
ATOM	1524	CZ PHE A 195	28.416	68.323	23.673	1.00	19.62	A	C
ATOM	1525	C PHE A 195	27.352	64.290	18.730	1.00	21.31	A	C
ATOM	1526	O PHE A 195	28.045	64.713	17.806	1.00	21.45	A	O
ATOM	1527	N MET A 196	26.822	63.072	18.720	1.00	22.22	A	N
ATOM	1528	CA MET A 196	27.059	62.190	17.584	1.00	24.31	A	C
ATOM	1529	CB MET A 196	26.655	60.749	17.915	1.00	25.67	A	C
ATOM	1530	CG MET A 196	27.528	60.084	18.971	1.00	26.49	A	C
ATOM	1531	SD MET A 196	29.295	60.205	18.575	1.00	30.70	A	S
ATOM	1532	CE MET A 196	29.481	58.865	17.401	1.00	31.02	A	C
ATOM	1533	C MET A 196	26.293	62.667	16.354	1.00	25.42	A	C
ATOM	1534	O MET A 196	26.734	62.451	15.227	1.00	23.73	A	O
ATOM	1535	N GLY A 197	25.157	63.328	16.571	1.00	25.90	A	N
ATOM	1536	CA GLY A 197	24.361	63.805	15.451	1.00	26.44	A	C
ATOM	1537	C GLY A 197	24.566	65.258	15.054	1.00	29.06	A	C
ATOM	1538	O GLY A 197	24.129	65.681	13.981	1.00	30.51	A	O
ATOM	1539	N HIS A 198	25.233	66.030	15.903	1.00	27.75	A	N
ATOM	1540	CA HIS A 198	25.456	67.441	15.612	1.00	28.55	A	C
ATOM	1541	CB HIS A 198	24.824	68.293	16.705	1.00	28.88	A	C
ATOM	1542	CG HIS A 198	23.330	68.234	16.718	1.00	26.12	A	C
ATOM	1543	CD2 HIS A 198	22.470	67.535	17.495	1.00	26.28	A	C
ATOM	1544	ND1 HIS A 198	22.553	68.943	15.828	1.00	27.58	A	N
ATOM	1545	CE1 HIS A 198	21.277	68.687	16.060	1.00	27.01	A	C
ATOM	1546	NE2 HIS A 198	21.200	67.835	17.066	1.00	26.83	A	N
ATOM	1547	C HIS A 198	26.923	67.792	15.457	1.00	30.79	A	C
ATOM	1548	O HIS A 198	27.270	68.941	15.180	1.00	32.29	A	O
ATOM	1549	N PHE A 199	27.785	66.800	15.644	1.00	30.80	A	N
ATOM	1550	CA PHE A 199	29.220	66.999	15.498	1.00	33.66	A	C
ATOM	1551	CB PHE A 199	29.906	67.052	16.866	1.00	35.46	A	C
ATOM	1552	CG PHE A 199	29.565	68.275	17.676	1.00	39.04	A	C
ATOM	1553	CD1 PHE A 199	28.281	68.463	18.182	1.00	39.24	A	C
ATOM	1554	CD2 PHE A 199	30.537	69.237	17.945	1.00	40.88	A	C
ATOM	1555	CE1 PHE A 199	27.968	69.591	18.944	1.00	40.57	A	C
ATOM	1556	CE2 PHE A 199	30.236	70.370	18.707	1.00	42.99	A	C
ATOM	1557	CZ PHE A 199	28.948	70.547	19.207	1.00	40.25	A	C
ATOM	1558	C PHE A 199	29.790	65.855	14.673	1.00	32.87	A	C
ATOM	1559	O PHE A 199	29.170	64.798	14.547	1.00	32.00	A	O
ATOM	1560	N ALA A 200	30.972	66.064	14.108	1.00	34.09	A	N
ATOM	1561	CA ALA A 200	31.605	65.040	13.288	1.00	34.34	A	C
ATOM	1562	CB ALA A 200	32.381	65.690	12.154	1.00	35.22	A	C
ATOM	1563	C ALA A 200	32.532	64.168	14.119	1.00	34.93	A	C
ATOM	1564	O ALA A 200	33.704	63.996	13.782	1.00	35.08	A	O
ATOM	1565	N LEU A 201	32.012	63.618	15.209	1.00	34.85	A	N
ATOM	1566	CA LEU A 201	32.821	62.765	16.067	1.00	34.78	A	C
ATOM	1567	CB LEU A 201	32.210	62.690	17.472	1.00	35.79	A	C
ATOM	1568	CG LEU A 201	32.120	64.015	18.231	1.00	35.31	A	C
ATOM	1569	CD1 LEU A 201	31.513	63.760	19.603	1.00	35.13	A	C
ATOM	1570	CD2 LEU A 201	33.498	64.641	18.365	1.00	35.35	A	C
ATOM	1571	C LEU A 201	32.906	61.366	15.462	1.00	34.07	A	C
ATOM	1572	O LEU A 201	31.887	60.773	15.104	1.00	35.38	A	O
ATOM	1573	N PRO A 202	34.128	60.817	15.344	1.00	33.66	A	N
ATOM	1574	CD PRO A 202	35.409	61.457	15.698	1.00	32.39	A	C
ATOM	1575	CA PRO A 202	34.353	59.475	14.779	1.00	32.85	A	C
ATOM	1576	CB PRO A 202	35.872	59.404	14.655	1.00	33.65	A	C

Figure 4CC

ATOM	1577	CG	PRO A 202	36.343	60.272	15.793	1.00	34.48	A	C
ATOM	1578	C	PRO A 202	33.790	58.355	15.649	1.00	33.17	A	C
ATOM	1579	O	PRO A 202	33.402	57.297	15.151	1.00	30.49	A	O
ATOM	1580	N	THR A 203	33.773	58.599	16.956	1.00	31.52	A	N
ATOM	1581	CA	THR A 203	33.248	57.634	17.919	1.00	31.65	A	C
ATOM	1582	CB	THR A 203	34.338	56.676	18.426	1.00	32.68	A	C
ATOM	1583	OG1	THR A 203	35.425	57.424	18.979	1.00	35.29	A	O
ATOM	1584	CG2	THR A 203	34.828	55.781	17.302	1.00	37.32	A	C
ATOM	1585	C	THR A 203	32.688	58.386	19.117	1.00	30.86	A	C
ATOM	1586	O	THR A 203	33.168	59.451	19.461	1.00	27.18	A	O
ATOM	1587	N	PRO A 204	31.671	57.817	19.775	1.00	29.89	A	N
ATOM	1588	CD	PRO A 204	31.126	56.473	19.492	1.00	29.77	A	C
ATOM	1589	CA	PRO A 204	31.061	58.463	20.945	1.00	28.24	A	C
ATOM	1590	CB	PRO A 204	30.047	57.449	21.462	1.00	29.94	A	C
ATOM	1591	CG	PRO A 204	30.111	56.276	20.568	1.00	30.77	A	C
ATOM	1592	C	PRO A 204	32.096	58.803	22.007	1.00	25.79	A	C
ATOM	1593	O	PRO A 204	33.032	58.041	22.269	1.00	25.89	A	O
ATOM	1594	N	PRO A 205	31.961	59.981	22.626	1.00	23.44	A	N
ATOM	1595	CD	PRO A 205	30.990	61.063	22.358	1.00	24.13	A	C
ATOM	1596	CA	PRO A 205	32.915	60.378	23.670	1.00	22.08	A	C
ATOM	1597	CB	PRO A 205	32.600	61.852	23.873	1.00	24.52	A	C
ATOM	1598	CG	PRO A 205	31.125	61.932	23.587	1.00	24.69	A	C
ATOM	1599	C	PRO A 205	32.705	59.546	24.927	1.00	19.36	A	C
ATOM	1600	O	PRO A 205	31.637	58.961	25.125	1.00	18.49	A	O
ATOM	1601	N	LEU A 206	33.722	59.492	25.776	1.00	18.43	A	N
ATOM	1602	CA	LEU A 206	33.626	58.762	27.037	1.00	18.50	A	C
ATOM	1603	CB	LEU A 206	35.018	58.513	27.619	1.00	20.51	A	C
ATOM	1604	CG	LEU A 206	35.095	57.847	28.996	1.00	22.39	A	C
ATOM	1605	CD1	LEU A 206	34.491	56.439	28.946	1.00	22.36	A	C
ATOM	1606	CD2	LEU A 206	36.552	57.791	29.435	1.00	24.60	A	C
ATOM	1607	C	LEU A 206	32.822	59.615	28.017	1.00	18.04	A	C
ATOM	1608	O	LEU A 206	33.163	60.770	28.253	1.00	16.95	A	O
ATOM	1609	N	LEU A 207	31.746	59.049	28.554	1.00	16.00	A	N
ATOM	1610	CA	LEU A 207	30.909	59.748	29.521	1.00	17.26	A	C
ATOM	1611	CB	LEU A 207	29.433	59.412	29.304	1.00	18.06	A	C
ATOM	1612	CG	LEU A 207	28.664	60.071	28.158	1.00	24.42	A	C
ATOM	1613	CD1	LEU A 207	29.448	59.984	26.863	1.00	25.51	A	C
ATOM	1614	CD2	LEU A 207	27.310	59.373	28.012	1.00	24.48	A	C
ATOM	1615	C	LEU A 207	31.318	59.314	30.922	1.00	16.98	A	C
ATOM	1616	O	LEU A 207	31.388	58.120	31.215	1.00	18.46	A	O
ATOM	1617	N	ILE A 208	31.592	60.276	31.792	1.00	13.50	A	N
ATOM	1618	CA	ILE A 208	31.983	59.940	33.150	1.00	14.98	A	C
ATOM	1619	CB	ILE A 208	33.112	60.864	33.659	1.00	16.20	A	C
ATOM	1620	CG2	ILE A 208	33.468	60.509	35.101	1.00	16.97	A	C
ATOM	1621	CG1	ILE A 208	34.345	60.722	32.763	1.00	16.39	A	C
ATOM	1622	CD1	ILE A 208	34.984	59.333	32.784	1.00	17.91	A	C
ATOM	1623	C	ILE A 208	30.771	60.069	34.057	1.00	15.79	A	C
ATOM	1624	O	ILE A 208	30.193	61.150	34.194	1.00	15.47	A	O
ATOM	1625	N	HIS A 209	30.390	58.951	34.669	1.00	15.02	A	N
ATOM	1626	CA	HIS A 209	29.238	58.895	35.567	1.00	14.90	A	C
ATOM	1627	CB	HIS A 209	28.502	57.569	35.333	1.00	17.49	A	C
ATOM	1628	CG	HIS A 209	27.271	57.387	36.169	1.00	19.71	A	C
ATOM	1629	CD2	HIS A 209	27.116	57.192	37.500	1.00	20.19	A	C
ATOM	1630	ND1	HIS A 209	26.004	57.336	35.625	1.00	21.72	A	N
ATOM	1631	CE1	HIS A 209	25.123	57.114	36.584	1.00	17.63	A	C
ATOM	1632	NE2	HIS A 209	25.772	57.023	37.732	1.00	22.48	A	N
ATOM	1633	C	HIS A 209	29.744	59.006	37.011	1.00	13.24	A	C
ATOM	1634	O	HIS A 209	30.546	58.191	37.458	1.00	13.01	A	O

Figure 4DD

ATOM	1635	N	SER A 210	29.275	60.018	37.734	1.00	12.05	A	N
ATOM	1636	CA	SER A 210	29.709	60.238	39.109	1.00	11.23	A	C
ATOM	1637	CB	SER A 210	28.977	61.442	39.701	1.00	11.83	A	C
ATOM	1638	OG	SER A 210	29.140	62.587	38.881	1.00	12.14	A	O
ATOM	1639	C	SER A 210	29.529	59.031	40.032	1.00	12.17	A	C
ATOM	1640	O	SER A 210	30.370	58.774	40.890	1.00	11.45	A	O
ATOM	1641	N	GLY A 211	28.432	58.303	39.861	1.00	13.88	A	N
ATOM	1642	CA	GLY A 211	28.178	57.142	40.698	1.00	15.08	A	C
ATOM	1643	C	GLY A 211	29.147	56.004	40.446	1.00	16.38	A	C
ATOM	1644	O	GLY A 211	29.744	55.461	41.378	1.00	15.04	A	O
ATOM	1645	N	ASP A 212	29.311	55.630	39.183	1.00	15.98	A	N
ATOM	1646	CA	ASP A 212	30.231	54.552	38.860	1.00	16.82	A	C
ATOM	1647	CB	ASP A 212	30.208	54.264	37.365	1.00	19.63	A	C
ATOM	1648	CG	ASP A 212	28.847	53.798	36.895	1.00	23.61	A	C
ATOM	1649	OD1	ASP A 212	28.145	53.131	37.692	1.00	25.34	A	O
ATOM	1650	OD2	ASP A 212	28.486	54.086	35.738	1.00	21.50	A	O
ATOM	1651	C	ASP A 212	31.638	54.917	39.303	1.00	16.04	A	C
ATOM	1652	O	ASP A 212	32.375	54.073	39.807	1.00	15.40	A	O
ATOM	1653	N	ALA A 213	31.994	56.185	39.135	1.00	12.67	A	N
ATOM	1654	CA	ALA A 213	33.317	56.667	39.517	1.00	14.11	A	C
ATOM	1655	CB	ALA A 213	33.493	58.126	39.076	1.00	11.29	A	C
ATOM	1656	C	ALA A 213	33.560	56.540	41.022	1.00	12.53	A	C
ATOM	1657	O	ALA A 213	34.607	56.049	41.452	1.00	13.00	A	O
ATOM	1658	N	ILE A 214	32.603	56.973	41.834	1.00	13.61	A	N
ATOM	1659	CA	ILE A 214	32.808	56.875	43.271	1.00	11.94	A	C
ATOM	1660	CB	ILE A 214	31.748	57.701	44.065	1.00	12.63	A	C
ATOM	1661	CG2	ILE A 214	30.367	57.085	43.938	1.00	15.04	A	C
ATOM	1662	CG1	ILE A 214	32.174	57.795	45.530	1.00	12.30	A	C
ATOM	1663	CD1	ILE A 214	31.429	58.832	46.317	1.00	11.04	A	C
ATOM	1664	C	ILE A 214	32.855	55.405	43.719	1.00	13.71	A	C
ATOM	1665	O	ILE A 214	33.595	55.061	44.643	1.00	12.81	A	O
ATOM	1666	N	VAL A 215	32.096	54.538	43.053	1.00	13.33	A	N
ATOM	1667	CA	VAL A 215	32.118	53.109	43.387	1.00	13.18	A	C
ATOM	1668	CB	VAL A 215	31.165	52.293	42.474	1.00	13.68	A	C
ATOM	1669	CG1	VAL A 215	31.481	50.792	42.579	1.00	14.80	A	C
ATOM	1670	CG2	VAL A 215	29.707	52.537	42.876	1.00	10.93	A	C
ATOM	1671	C	VAL A 215	33.550	52.599	43.190	1.00	15.07	A	C
ATOM	1672	O	VAL A 215	34.115	51.933	44.065	1.00	12.73	A	O
ATOM	1673	N	GLU A 216	34.136	52.924	42.039	1.00	13.86	A	N
ATOM	1674	CA	GLU A 216	35.503	52.511	41.738	1.00	17.89	A	C
ATOM	1675	CB	GLU A 216	35.973	53.120	40.414	1.00	21.27	A	C
ATOM	1676	CG	GLU A 216	35.112	52.807	39.204	1.00	27.92	A	C
ATOM	1677	CD	GLU A 216	35.637	53.492	37.941	1.00	34.02	A	C
ATOM	1678	OE1	GLU A 216	36.824	53.286	37.609	1.00	31.93	A	O
ATOM	1679	OE2	GLU A 216	34.868	54.236	37.285	1.00	35.33	A	O
ATOM	1680	C	GLU A 216	36.447	52.971	42.846	1.00	17.32	A	C
ATOM	1681	O	GLU A 216	37.245	52.188	43.363	1.00	16.80	A	O
ATOM	1682	N	TYR A 217	36.352	54.248	43.204	1.00	16.20	A	N
ATOM	1683	CA	TYR A 217	37.200	54.818	44.244	1.00	16.23	A	C
ATOM	1684	CB	TYR A 217	36.900	56.308	44.432	1.00	14.73	A	C
ATOM	1685	CG	TYR A 217	37.693	56.942	45.557	1.00	17.55	A	C
ATOM	1686	CD1	TYR A 217	39.053	57.202	45.418	1.00	18.17	A	C
ATOM	1687	CE1	TYR A 217	39.797	57.738	46.475	1.00	18.51	A	C
ATOM	1688	CD2	TYR A 217	37.089	57.234	46.780	1.00	16.61	A	C
ATOM	1689	CE2	TYR A 217	37.815	57.765	47.836	1.00	17.74	A	C
ATOM	1690	CZ	TYR A 217	39.168	58.014	47.680	1.00	19.47	A	C
ATOM	1691	OH	TYR A 217	39.891	58.526	48.735	1.00	18.42	A	O
ATOM	1692	C	TYR A 217	37.041	54.116	45.584	1.00	16.31	A	C

Figure 4EE

ATOM	1693	O	TYR A 217	38.028	53.715	46.199	1.00	16.78	A	O
ATOM	1694	N	LEU A 218	35.798	53.995	46.045	1.00	15.56	A	N
ATOM	1695	CA	LEU A 218	35.509	53.353	47.324	1.00	18.16	A	C
ATOM	1696	CB	LEU A 218	33.993	53.344	47.575	1.00	15.21	A	C
ATOM	1697	CG	LEU A 218	33.321	54.705	47.799	1.00	15.27	A	C
ATOM	1698	CD1	LEU A 218	31.798	54.546	47.756	1.00	14.34	A	C
ATOM	1699	CD2	LEU A 218	33.775	55.294	49.129	1.00	13.25	A	C
ATOM	1700	C	LEU A 218	36.058	51.926	47.402	1.00	18.45	A	C
ATOM	1701	O	LEU A 218	36.648	51.531	48.409	1.00	18.06	A	O
ATOM	1702	N	GLN A 219	35.871	51.150	46.341	1.00	17.77	A	N
ATOM	1703	CA	GLN A 219	36.367	49.778	46.335	1.00	19.66	A	C
ATOM	1704	CB	GLN A 219	36.042	49.097	45.005	1.00	18.42	A	C
ATOM	1705	CG	GLN A 219	34.577	49.147	44.645	1.00	17.80	A	C
ATOM	1706	CD	GLN A 219	34.282	48.496	43.318	1.00	17.89	A	C
ATOM	1707	OE1	GLN A 219	35.071	48.596	42.372	1.00	18.96	A	O
ATOM	1708	NE2	GLN A 219	33.134	47.837	43.228	1.00	13.87	A	N
ATOM	1709	C	GLN A 219	37.876	49.740	46.567	1.00	19.63	A	C
ATOM	1710	O	GLN A 219	38.368	48.964	47.380	1.00	19.95	A	O
ATOM	1711	N	GLN A 220	38.605	50.593	45.859	1.00	21.16	A	N
ATOM	1712	CA	GLN A 220	40.057	50.621	45.992	1.00	24.11	A	C
ATOM	1713	CB	GLN A 220	40.681	51.372	44.811	1.00	25.85	A	C
ATOM	1714	CG	GLN A 220	42.197	51.445	44.885	1.00	34.94	A	C
ATOM	1715	CD	GLN A 220	42.830	51.975	43.615	1.00	40.03	A	C
ATOM	1716	OE1	GLN A 220	44.050	52.152	43.548	1.00	44.37	A	O
ATOM	1717	NE2	GLN A 220	42.010	52.227	42.598	1.00	41.95	A	N
ATOM	1718	C	GLN A 220	40.534	51.242	47.304	1.00	22.63	A	C
ATOM	1719	O	GLN A 220	41.275	50.617	48.062	1.00	21.00	A	O
ATOM	1720	N	LYS A 221	40.104	52.472	47.564	1.00	21.71	A	N
ATOM	1721	CA	LYS A 221	40.503	53.194	48.770	1.00	22.37	A	C
ATOM	1722	CB	LYS A 221	39.830	54.570	48.795	1.00	21.53	A	C
ATOM	1723	CG	LYS A 221	39.984	55.325	50.111	1.00	25.31	A	C
ATOM	1724	CD	LYS A 221	41.443	55.615	50.439	1.00	26.19	A	C
ATOM	1725	CE	LYS A 221	41.579	56.244	51.818	1.00	29.00	A	C
ATOM	1726	NZ	LYS A 221	42.999	56.511	52.159	1.00	29.71	A	N
ATOM	1727	C	LYS A 221	40.221	52.464	50.084	1.00	22.42	A	C
ATOM	1728	O	LYS A 221	41.090	52.376	50.953	1.00	21.37	A	O
ATOM	1729	N	TYR A 222	39.005	51.950	50.229	1.00	20.94	A	N
ATOM	1730	CA	TYR A 222	38.616	51.250	51.442	1.00	21.75	A	C
ATOM	1731	CB	TYR A 222	37.251	51.762	51.903	1.00	22.02	A	C
ATOM	1732	CG	TYR A 222	37.277	53.247	52.204	1.00	20.42	A	C
ATOM	1733	CD1	TYR A 222	36.737	54.178	51.314	1.00	18.91	A	C
ATOM	1734	CE1	TYR A 222	36.866	55.549	51.545	1.00	20.88	A	C
ATOM	1735	CD2	TYR A 222	37.938	53.725	53.336	1.00	21.77	A	C
ATOM	1736	CE2	TYR A 222	38.074	55.080	53.577	1.00	19.97	A	C
ATOM	1737	CZ	TYR A 222	37.540	55.988	52.679	1.00	20.71	A	C
ATOM	1738	OH	TYR A 222	37.705	57.330	52.909	1.00	16.95	A	O
ATOM	1739	C	TYR A 222	38.637	49.731	51.350	1.00	21.67	A	C
ATOM	1740	O	TYR A 222	38.112	49.040	52.226	1.00	20.83	A	O
ATOM	1741	N	ALA A 223	39.264	49.219	50.292	1.00	21.20	A	N
ATOM	1742	CA	ALA A 223	39.408	47.774	50.077	1.00	22.92	A	C
ATOM	1743	CB	ALA A 223	40.466	47.204	50.984	1.00	23.23	A	C
ATOM	1744	C	ALA A 223	38.105	47.055	50.330	1.00	23.19	A	C
ATOM	1745	O	ALA A 223	38.024	46.162	51.180	1.00	20.95	A	O
ATOM	1746	N	LEU A 224	37.088	47.426	49.565	1.00	25.19	A	N
ATOM	1747	CA	LEU A 224	35.759	46.839	49.692	1.00	24.53	A	C
ATOM	1748	CB	LEU A 224	34.703	47.937	49.609	1.00	22.99	A	C
ATOM	1749	CG	LEU A 224	34.869	49.090	50.607	1.00	21.68	A	C
ATOM	1750	CD1	LEU A 224	33.731	50.099	50.443	1.00	22.66	A	C

Figure 4FF

ATOM	1751	CD2 LEU A 224	34.875	48.531	52.022	1.00	23.83	A	C
ATOM	1752	C LEU A 224	35.576	45.852	48.551	1.00	24.10	A	C
ATOM	1753	O LEU A 224	35.569	46.259	47.400	1.00	22.11	A	O
ATOM	1754	N LYS A 225	35.368	44.572	48.866	1.00	26.47	A	N
ATOM	1755	CA LYS A 225	35.212	43.532	47.846	1.00	25.75	A	C
ATOM	1756	CB LYS A 225	35.880	42.233	48.331	1.00	26.74	A	C
ATOM	1757	CG LYS A 225	37.358	42.380	48.669	1.00	28.32	A	C
ATOM	1758	CD LYS A 225	38.185	42.652	47.421	1.00	31.42	A	C
ATOM	1759	CE LYS A 225	38.157	41.461	46.478	1.00	32.69	A	C
ATOM	1760	NZ LYS A 225	39.003	41.698	45.284	1.00	34.46	A	N
ATOM	1761	C LYS A 225	33.803	43.213	47.340	1.00	24.95	A	C
ATOM	1762	O LYS A 225	33.568	42.125	46.819	1.00	29.54	A	O
ATOM	1763	N ASN A 226	32.870	44.143	47.489	1.00	23.13	A	N
ATOM	1764	CA ASN A 226	31.498	43.938	47.019	1.00	20.01	A	C
ATOM	1765	CB ASN A 226	31.469	43.729	45.500	1.00	19.42	A	C
ATOM	1766	CG ASN A 226	32.287	44.755	44.751	1.00	23.12	A	C
ATOM	1767	OD1 ASN A 226	33.342	44.439	44.190	1.00	20.38	A	O
ATOM	1768	ND2 ASN A 226	31.814	45.995	44.743	1.00	16.65	A	N
ATOM	1769	C ASN A 226	30.800	42.740	47.662	1.00	21.21	A	C
ATOM	1770	O ASN A 226	30.086	41.999	46.981	1.00	18.29	A	O
ATOM	1771	N ASN A 227	30.984	42.551	48.963	1.00	22.29	A	N
ATOM	1772	CA ASN A 227	30.362	41.421	49.641	1.00	22.96	A	C
ATOM	1773	CB ASN A 227	31.438	40.462	50.163	1.00	22.46	A	C
ATOM	1774	CG ASN A 227	32.503	41.165	50.982	1.00	21.07	A	C
ATOM	1775	OD1 ASN A 227	32.223	42.137	51.679	1.00	19.99	A	O
ATOM	1776	ND2 ASN A 227	33.733	40.659	50.916	1.00	19.44	A	N
ATOM	1777	C ASN A 227	29.428	41.805	50.783	1.00	24.57	A	C
ATOM	1778	O ASN A 227	29.198	41.005	51.690	1.00	21.91	A	O
ATOM	1779	N ALA A 228	28.891	43.021	50.741	1.00	23.23	A	N
ATOM	1780	CA ALA A 228	27.969	43.481	51.776	1.00	26.14	A	C
ATOM	1781	CB ALA A 228	27.806	45.001	51.699	1.00	22.82	A	C
ATOM	1782	C ALA A 228	26.611	42.793	51.596	1.00	26.93	A	C
ATOM	1783	O ALA A 228	26.405	42.077	50.619	1.00	26.75	A	O
ATOM	1784	N CYS A 229	25.698	43.016	52.541	1.00	29.94	A	N
ATOM	1785	CA CYS A 229	24.359	42.425	52.508	1.00	34.05	A	C
ATOM	1786	CB CYS A 229	23.438	43.143	53.508	1.00	36.45	A	C
ATOM	1787	SG CYS A 229	23.886	42.897	55.243	1.00	48.21	A	S
ATOM	1788	C CYS A 229	23.730	42.476	51.124	1.00	35.31	A	C
ATOM	1789	O CYS A 229	23.882	43.451	50.399	1.00	35.27	A	O
ATOM	1790	N THR A 230	23.030	41.412	50.757	1.00	38.04	A	N
ATOM	1791	CA THR A 230	22.378	41.380	49.466	1.00	40.97	A	C
ATOM	1792	CB THR A 230	21.965	39.958	49.076	1.00	42.40	A	C
ATOM	1793	OG1 THR A 230	21.273	39.335	50.163	1.00	45.09	A	O
ATOM	1794	CG2 THR A 230	23.190	39.148	48.730	1.00	43.15	A	C
ATOM	1795	C THR A 230	21.150	42.269	49.476	1.00	41.97	A	C
ATOM	1796	O THR A 230	20.887	42.971	48.493	1.00	42.37	A	O
ATOM	1797	N PHE A 231	20.376	42.232	50.552	1.00	42.74	A	N
ATOM	1798	CA PHE A 231	19.230	43.108	50.576	1.00	43.96	A	C
ATOM	1799	CB PHE A 231	17.938	42.321	50.366	1.00	49.35	A	C
ATOM	1800	CG PHE A 231	17.721	41.990	48.907	1.00	55.66	A	C
ATOM	1801	CD1 PHE A 231	18.494	41.004	48.306	1.00	58.70	A	C
ATOM	1802	CD2 PHE A 231	16.903	42.785	48.088	1.00	58.59	A	C
ATOM	1803	CE1 PHE A 231	18.483	40.801	46.922	1.00	60.69	A	C
ATOM	1804	CE2 PHE A 231	16.879	42.597	46.701	1.00	60.58	A	C
ATOM	1805	CZ PHE A 231	17.668	41.604	46.113	1.00	60.92	A	C
ATOM	1806	C PHE A 231	19.335	43.912	51.838	1.00	40.83	A	C
ATOM	1807	O PHE A 231	18.811	43.567	52.886	1.00	42.69	A	O
ATOM	1808	N PRO A 232	20.153	44.975	51.722	1.00	35.76	A	N

Figure 4GG

ATOM	1809	CD	PRO A 232	20.672	45.196	50.347	1.00	35.27	A	C
ATOM	1810	CA	PRO A 232	20.579	46.028	52.651	1.00	32.93	A	C
ATOM	1811	CB	PRO A 232	21.689	46.764	51.874	1.00	32.41	A	C
ATOM	1812	CG	PRO A 232	21.363	46.497	50.424	1.00	32.47	A	C
ATOM	1813	C	PRO A 232	19.457	46.929	53.137	1.00	29.06	A	C
ATOM	1814	O	PRO A 232	18.456	47.146	52.452	1.00	27.86	A	O
ATOM	1815	N	LYS A 233	19.630	47.440	54.346	1.00	27.89	A	N
ATOM	1816	CA	LYS A 233	18.645	48.314	54.943	1.00	25.66	A	C
ATOM	1817	CB	LYS A 233	18.682	48.188	56.464	1.00	29.61	A	C
ATOM	1818	CG	LYS A 233	18.178	46.843	56.973	1.00	34.08	A	C
ATOM	1819	CD	LYS A 233	18.086	46.829	58.491	1.00	40.01	A	C
ATOM	1820	CE	LYS A 233	19.454	46.996	59.139	1.00	41.92	A	C
ATOM	1821	NZ	LYS A 233	19.351	47.038	60.626	1.00	44.78	A	N
ATOM	1822	C	LYS A 233	18.945	49.739	54.524	1.00	23.25	A	C
ATOM	1823	O	LYS A 233	20.042	50.248	54.738	1.00	20.72	A	O
ATOM	1824	N	VAL A 234	17.959	50.374	53.909	1.00	21.94	A	N
ATOM	1825	CA	VAL A 234	18.122	51.742	53.457	1.00	18.96	A	C
ATOM	1826	CB	VAL A 234	18.171	51.809	51.927	1.00	18.07	A	C
ATOM	1827	CG1	VAL A 234	18.407	53.242	51.484	1.00	15.91	A	C
ATOM	1828	CG2	VAL A 234	19.265	50.884	51.403	1.00	19.03	A	C
ATOM	1829	C	VAL A 234	16.982	52.622	53.945	1.00	19.45	A	C
ATOM	1830	O	VAL A 234	15.810	52.291	53.775	1.00	18.84	A	O
ATOM	1831	N	GLU A 235	17.332	53.749	54.550	1.00	18.70	A	N
ATOM	1832	CA	GLU A 235	16.333	54.682	55.044	1.00	19.65	A	C
ATOM	1833	CB	GLU A 235	16.584	55.029	56.513	1.00	20.87	A	C
ATOM	1834	CG	GLU A 235	16.619	53.849	57.461	1.00	24.25	A	C
ATOM	1835	CD	GLU A 235	16.762	54.287	58.908	1.00	26.71	A	C
ATOM	1836	OE1	GLU A 235	16.924	53.412	59.782	1.00	30.95	A	O
ATOM	1837	OE2	GLU A 235	16.710	55.509	59.174	1.00	28.58	A	O
ATOM	1838	C	GLU A 235	16.433	55.957	54.226	1.00	19.63	A	C
ATOM	1839	O	GLU A 235	17.522	56.339	53.793	1.00	19.08	A	O
ATOM	1840	N	PHE A 236	15.295	56.608	54.008	1.00	16.22	A	N
ATOM	1841	CA	PHE A 236	15.281	57.850	53.260	1.00	15.50	A	C
ATOM	1842	CB	PHE A 236	14.454	57.703	51.985	1.00	16.22	A	C
ATOM	1843	CG	PHE A 236	15.028	56.712	51.008	1.00	16.49	A	C
ATOM	1844	CD1	PHE A 236	14.734	55.352	51.117	1.00	14.80	A	C
ATOM	1845	CD2	PHE A 236	15.906	57.131	50.011	1.00	16.20	A	C
ATOM	1846	CE1	PHE A 236	15.311	54.423	50.249	1.00	16.35	A	C
ATOM	1847	CE2	PHE A 236	16.488	56.213	49.140	1.00	16.85	A	C
ATOM	1848	CZ	PHE A 236	16.191	54.857	49.258	1.00	18.08	A	C
ATOM	1849	C	PHE A 236	14.725	58.953	54.150	1.00	17.81	A	C
ATOM	1850	O	PHE A 236	13.669	58.808	54.771	1.00	17.48	A	O
ATOM	1851	N	HIS A 237	15.473	60.043	54.238	1.00	14.01	A	N
ATOM	1852	CA	HIS A 237	15.077	61.178	55.050	1.00	13.85	A	C
ATOM	1853	CB	HIS A 237	15.976	61.261	56.282	1.00	16.76	A	C
ATOM	1854	CG	HIS A 237	15.871	60.068	57.183	1.00	20.30	A	C
ATOM	1855	CD2	HIS A 237	16.529	58.884	57.176	1.00	22.69	A	C
ATOM	1856	ND1	HIS A 237	14.963	59.994	58.216	1.00	21.64	A	N
ATOM	1857	CE1	HIS A 237	15.065	58.816	58.808	1.00	24.58	A	C
ATOM	1858	NE2	HIS A 237	16.008	58.123	58.196	1.00	24.02	A	N
ATOM	1859	C	HIS A 237	15.240	62.421	54.190	1.00	12.98	A	C
ATOM	1860	O	HIS A 237	15.960	62.402	53.199	1.00	14.24	A	O
ATOM	1861	N	ALA A 238	14.573	63.500	54.571	1.00	14.25	A	N
ATOM	1862	CA	ALA A 238	14.656	64.745	53.822	1.00	14.74	A	C
ATOM	1863	CB	ALA A 238	13.867	64.622	52.523	1.00	13.87	A	C
ATOM	1864	C	ALA A 238	14.105	65.889	54.662	1.00	16.80	A	C
ATOM	1865	O	ALA A 238	13.416	65.662	55.659	1.00	13.41	A	O
ATOM	1866	N	SER A 239	14.419	67.118	54.265	1.00	16.83	A	N

Figure 4HH

ATOM	1867	CA	SER A 239	13.934	68.289	54.982	1.00	15.86	A	C
ATOM	1868	CB	SER A 239	14.874	69.472	54.749	1.00	17.78	A	C
ATOM	1869	OG	SER A 239	15.235	69.570	53.382	1.00	15.31	A	O
ATOM	1870	C	SER A 239	12.526	68.628	54.501	1.00	18.27	A	C
ATOM	1871	O	SER A 239	11.851	69.475	55.081	1.00	19.09	A	O
ATOM	1872	N	GLY A 240	12.093	67.950	53.440	1.00	19.12	A	N
ATOM	1873	CA	GLY A 240	10.764	68.172	52.891	1.00	18.85	A	C
ATOM	1874	C	GLY A 240	10.400	67.108	51.872	1.00	20.08	A	C
ATOM	1875	O	GLY A 240	11.262	66.321	51.462	1.00	19.84	A	O
ATOM	1876	N	ASP A 241	9.134	67.065	51.464	1.00	17.58	A	N
ATOM	1877	CA	ASP A 241	8.692	66.077	50.481	1.00	19.46	A	C
ATOM	1878	CB	ASP A 241	9.150	66.501	49.083	1.00	21.27	A	C
ATOM	1879	CG	ASP A 241	8.429	67.738	48.587	1.00	23.85	A	C
ATOM	1880	OD1	ASP A 241	7.247	67.610	48.206	1.00	26.32	A	O
ATOM	1881	OD2	ASP A 241	9.038	68.833	48.591	1.00	21.42	A	O
ATOM	1882	C	ASP A 241	9.257	64.694	50.803	1.00	16.99	A	C
ATOM	1883	O	ASP A 241	9.731	63.987	49.913	1.00	17.49	A	O
ATOM	1884	N	VAL A 242	9.208	64.316	52.076	1.00	15.93	A	N
ATOM	1885	CA	VAL A 242	9.737	63.025	52.516	1.00	14.13	A	C
ATOM	1886	CB	VAL A 242	9.894	62.990	54.052	1.00	17.19	A	C
ATOM	1887	CG1	VAL A 242	10.671	61.740	54.469	1.00	16.23	A	C
ATOM	1888	CG2	VAL A 242	10.612	64.248	54.523	1.00	18.97	A	C
ATOM	1889	C	VAL A 242	8.849	61.864	52.082	1.00	15.60	A	C
ATOM	1890	O	VAL A 242	9.341	60.808	51.660	1.00	12.78	A	O
ATOM	1891	N	ILE A 243	7.540	62.057	52.209	1.00	14.41	A	N
ATOM	1892	CA	ILE A 243	6.577	61.045	51.803	1.00	16.25	A	C
ATOM	1893	CB	ILE A 243	5.125	61.549	52.007	1.00	18.10	A	C
ATOM	1894	CG2	ILE A 243	4.123	60.554	51.414	1.00	20.99	A	C
ATOM	1895	CG1	ILE A 243	4.858	61.747	53.502	1.00	21.18	A	C
ATOM	1896	CD1	ILE A 243	3.485	62.293	53.817	1.00	20.78	A	C
ATOM	1897	C	ILE A 243	6.833	60.787	50.324	1.00	15.05	A	C
ATOM	1898	O	ILE A 243	6.885	59.639	49.878	1.00	16.76	A	O
ATOM	1899	N	TRP A 244	7.005	61.868	49.569	1.00	13.24	A	N
ATOM	1900	CA	TRP A 244	7.270	61.768	48.142	1.00	15.52	A	C
ATOM	1901	CB	TRP A 244	7.343	63.164	47.523	1.00	13.47	A	C
ATOM	1902	CG	TRP A 244	7.510	63.151	46.036	1.00	18.87	A	C
ATOM	1903	CD2	TRP A 244	8.732	63.342	45.312	1.00	17.48	A	C
ATOM	1904	CE2	TRP A 244	8.426	63.232	43.940	1.00	18.22	A	C
ATOM	1905	CE3	TRP A 244	10.057	63.594	45.693	1.00	17.59	A	C
ATOM	1906	CD1	TRP A 244	6.538	62.938	45.099	1.00	18.15	A	C
ATOM	1907	NE1	TRP A 244	7.083	62.988	43.835	1.00	18.29	A	N
ATOM	1908	CZ2	TRP A 244	9.399	63.366	42.943	1.00	20.22	A	C
ATOM	1909	CZ3	TRP A 244	11.024	63.727	44.702	1.00	18.36	A	C
ATOM	1910	CH2	TRP A 244	10.688	63.611	43.342	1.00	18.43	A	C
ATOM	1911	C	TRP A 244	8.590	61.042	47.891	1.00	14.64	A	C
ATOM	1912	O	TRP A 244	8.670	60.149	47.044	1.00	16.51	A	O
ATOM	1913	N	LEU A 245	9.628	61.436	48.623	1.00	13.56	A	N
ATOM	1914	CA	LEU A 245	10.941	60.814	48.459	1.00	12.19	A	C
ATOM	1915	CB	LEU A 245	11.946	61.416	49.444	1.00	11.28	A	C
ATOM	1916	CG	LEU A 245	13.379	60.875	49.342	1.00	11.24	A	C
ATOM	1917	CD1	LEU A 245	13.988	61.289	48.009	1.00	11.74	A	C
ATOM	1918	CD2	LEU A 245	14.223	61.407	50.490	1.00	10.22	A	C
ATOM	1919	C	LEU A 245	10.862	59.301	48.661	1.00	14.05	A	C
ATOM	1920	O	LEU A 245	11.439	58.537	47.884	1.00	12.33	A	O
ATOM	1921	N	GLU A 246	10.144	58.870	49.698	1.00	14.68	A	N
ATOM	1922	CA	GLU A 246	10.000	57.441	49.980	1.00	16.30	A	C
ATOM	1923	CB	GLU A 246	9.198	57.213	51.267	1.00	16.70	A	C
ATOM	1924	CG	GLU A 246	9.938	57.637	52.521	1.00	23.08	A	C

Figure 4II

ATOM	1925	CD	GLU A 246	9.544	56.818	53.737	1.00	25.63	A	C
ATOM	1926	OE1	GLU A 246	8.335	56.577	53.927	1.00	24.93	A	O
ATOM	1927	OE2	GLU A 246	10.444	56.423	54.508	1.00	27.10	A	O
ATOM	1928	C	GLU A 246	9.324	56.714	48.828	1.00	15.72	A	C
ATOM	1929	O	GLU A 246	9.691	55.589	48.494	1.00	15.40	A	O
ATOM	1930	N	ARG A 247	8.326	57.359	48.235	1.00	16.57	A	N
ATOM	1931	CA	ARG A 247	7.611	56.790	47.105	1.00	18.74	A	C
ATOM	1932	CB	ARG A 247	6.445	57.710	46.711	1.00	23.10	A	C
ATOM	1933	CG	ARG A 247	5.875	57.451	45.325	1.00	32.32	A	C
ATOM	1934	CD	ARG A 247	4.561	58.204	45.114	1.00	40.32	A	C
ATOM	1935	NE	ARG A 247	4.084	58.117	43.733	1.00	47.44	A	N
ATOM	1936	CZ	ARG A 247	4.569	58.835	42.722	1.00	49.78	A	C
ATOM	1937	NH1	ARG A 247	5.548	59.705	42.931	1.00	51.70	A	N
ATOM	1938	NH2	ARG A 247	4.079	58.682	41.497	1.00	52.43	A	N
ATOM	1939	C	ARG A 247	8.594	56.630	45.941	1.00	17.54	A	C
ATOM	1940	O	ARG A 247	8.654	55.578	45.299	1.00	14.31	A	O
ATOM	1941	N	GLN A 248	9.375	57.672	45.677	1.00	15.93	A	N
ATOM	1942	CA	GLN A 248	10.350	57.608	44.598	1.00	16.24	A	C
ATOM	1943	CB	GLN A 248	11.120	58.929	44.485	1.00	17.33	A	C
ATOM	1944	CG	GLN A 248	10.267	60.119	44.047	1.00	16.22	A	C
ATOM	1945	CD	GLN A 248	9.552	59.879	42.725	1.00	22.44	A	C
ATOM	1946	OE1	GLN A 248	10.184	59.627	41.694	1.00	22.85	A	O
ATOM	1947	NE2	GLN A 248	8.225	59.958	42.749	1.00	24.90	A	N
ATOM	1948	C	GLN A 248	11.324	56.453	44.815	1.00	15.90	A	C
ATOM	1949	O	GLN A 248	11.705	55.768	43.866	1.00	16.87	A	O
ATOM	1950	N	ALA A 249	11.720	56.231	46.065	1.00	15.92	A	N
ATOM	1951	CA	ALA A 249	12.644	55.146	46.384	1.00	15.55	A	C
ATOM	1952	CB	ALA A 249	13.015	55.191	47.857	1.00	16.80	A	C
ATOM	1953	C	ALA A 249	12.032	53.789	46.041	1.00	16.47	A	C
ATOM	1954	O	ALA A 249	12.685	52.943	45.426	1.00	16.21	A	O
ATOM	1955	N	LYS A 250	10.779	53.582	46.438	1.00	16.38	A	N
ATOM	1956	CA	LYS A 250	10.102	52.316	46.159	1.00	18.81	A	C
ATOM	1957	CB	LYS A 250	8.750	52.258	46.880	1.00	20.86	A	C
ATOM	1958	CG	LYS A 250	8.843	52.132	48.394	1.00	26.84	A	C
ATOM	1959	CD	LYS A 250	7.488	51.745	48.988	1.00	31.08	A	C
ATOM	1960	CE	LYS A 250	7.554	51.607	50.507	1.00	31.43	A	C
ATOM	1961	NZ	LYS A 250	7.896	52.899	51.156	1.00	29.87	A	N
ATOM	1962	C	LYS A 250	9.884	52.121	44.661	1.00	18.41	A	C
ATOM	1963	O	LYS A 250	10.073	51.024	44.125	1.00	15.17	A	O
ATOM	1964	N	GLU A 251	9.493	53.200	43.992	1.00	15.62	A	N
ATOM	1965	CA	GLU A 251	9.224	53.167	42.562	1.00	18.32	A	C
ATOM	1966	CB	GLU A 251	8.586	54.486	42.119	1.00	20.33	A	C
ATOM	1967	CG	GLU A 251	7.205	54.758	42.692	1.00	23.48	A	C
ATOM	1968	CD	GLU A 251	6.106	54.036	41.936	1.00	25.23	A	C
ATOM	1969	OE1	GLU A 251	6.415	53.361	40.932	1.00	28.49	A	O
ATOM	1970	OE2	GLU A 251	4.932	54.152	42.341	1.00	25.47	A	O
ATOM	1971	C	GLU A 251	10.448	52.921	41.694	1.00	20.06	A	C
ATOM	1972	O	GLU A 251	10.398	52.121	40.763	1.00	17.23	A	O
ATOM	1973	N	TRP A 252	11.547	53.606	41.997	1.00	19.52	A	N
ATOM	1974	CA	TRP A 252	12.748	53.489	41.175	1.00	20.14	A	C
ATOM	1975	CB	TRP A 252	13.276	54.885	40.832	1.00	18.05	A	C
ATOM	1976	CG	TRP A 252	12.305	55.710	40.043	1.00	18.22	A	C
ATOM	1977	CD2	TRP A 252	12.039	55.607	38.640	1.00	20.57	A	C
ATOM	1978	CE2	TRP A 252	11.017	56.533	38.339	1.00	20.85	A	C
ATOM	1979	CE3	TRP A 252	12.564	54.818	37.607	1.00	21.87	A	C
ATOM	1980	CD1	TRP A 252	11.460	56.669	40.523	1.00	17.88	A	C
ATOM	1981	NE1	TRP A 252	10.683	57.168	39.508	1.00	17.77	A	N
ATOM	1982	CZ2	TRP A 252	10.506	56.697	37.041	1.00	22.03	A	C

Figure 4JJ

ATOM	1983	CZ3 TRP A 252	12.055	54.978	36.314	1.00	21.57	A	C
ATOM	1984	CH2 TRP A 252	11.036	55.913	36.045	1.00	22.86	A	C
ATOM	1985	C TRP A 252	13.902	52.641	41.688	1.00	22.39	A	C
ATOM	1986	O TRP A 252	14.680	52.122	40.886	1.00	23.72	A	O
ATOM	1987	N LEU A 253	14.024	52.504	43.003	1.00	22.18	A	N
ATOM	1988	CA LEU A 253	15.106	51.717	43.588	1.00	25.35	A	C
ATOM	1989	CB LEU A 253	15.809	52.524	44.680	1.00	20.44	A	C
ATOM	1990	CG LEU A 253	16.355	53.904	44.285	1.00	21.92	A	C
ATOM	1991	CD1 LEU A 253	16.785	54.649	45.532	1.00	18.63	A	C
ATOM	1992	CD2 LEU A 253	17.530	53.758	43.316	1.00	20.79	A	C
ATOM	1993	C LEU A 253	14.583	50.401	44.168	1.00	29.73	A	C
ATOM	1994	O LEU A 253	15.357	49.570	44.647	1.00	31.04	A	O
ATOM	1995	N LYS A 254	13.267	50.219	44.121	1.00	33.91	A	N
ATOM	1996	CA LYS A 254	12.638	49.007	44.631	1.00	39.79	A	C
ATOM	1997	CB LYS A 254	13.102	47.795	43.812	1.00	43.18	A	C
ATOM	1998	CG LYS A 254	12.330	46.518	44.102	1.00	51.27	A	C
ATOM	1999	CD LYS A 254	12.747	45.377	43.181	1.00	56.67	A	C
ATOM	2000	CE LYS A 254	11.928	44.121	43.464	1.00	59.29	A	C
ATOM	2001	NZ LYS A 254	10.463	44.368	43.307	1.00	62.20	A	N
ATOM	2002	C LYS A 254	12.967	48.805	46.110	1.00	41.24	A	C
ATOM	2003	O LYS A 254	13.111	47.678	46.586	1.00	42.02	A	O
ATOM	2004	N LEU A 255	13.091	49.911	46.834	1.00	42.21	A	N
ATOM	2005	CA LEU A 255	13.396	49.856	48.255	1.00	43.88	A	C
ATOM	2006	CB LEU A 255	14.643	50.687	48.560	1.00	41.85	A	C
ATOM	2007	CG LEU A 255	15.934	50.186	47.910	1.00	40.40	A	C
ATOM	2008	CD1 LEU A 255	17.065	51.143	48.229	1.00	40.11	A	C
ATOM	2009	CD2 LEU A 255	16.258	48.788	48.412	1.00	39.40	A	C
ATOM	2010	C LEU A 255	12.211	50.365	49.070	1.00	46.21	A	C
ATOM	2011	O LEU A 255	12.350	51.427	49.715	1.00	47.30	A	O
ATOM	2012	OXT LEU A 255	11.152	49.696	49.044	1.00	48.09	A	O
ATOM	2013	CB MET B 1	3.272	103.508	55.905	1.00	23.27	B	C
ATOM	2014	CG MET B 1	3.026	102.116	56.484	1.00	25.31	B	C
ATOM	2015	SD MET B 1	1.613	101.253	55.747	1.00	29.32	B	S
ATOM	2016	CE MET B 1	0.239	102.076	56.594	1.00	27.48	B	C
ATOM	2017	C MET B 1	5.739	103.357	56.203	1.00	22.82	B	C
ATOM	2018	O MET B 1	6.391	103.503	55.166	1.00	21.44	B	O
ATOM	2019	N MET B 1	4.661	105.565	55.875	1.00	22.28	B	N
ATOM	2020	CA MET B 1	4.509	104.211	56.478	1.00	22.89	B	C
ATOM	2021	N LYS B 2	6.057	102.479	57.148	1.00	22.63	B	N
ATOM	2022	CA LYS B 2	7.185	101.568	57.010	1.00	21.27	B	C
ATOM	2023	CB LYS B 2	8.060	101.591	58.260	1.00	21.29	B	C
ATOM	2024	CG LYS B 2	9.273	100.675	58.156	1.00	18.62	B	C
ATOM	2025	CD LYS B 2	10.097	100.705	59.419	1.00	18.80	B	C
ATOM	2026	CE LYS B 2	11.414	99.983	59.213	1.00	19.94	B	C
ATOM	2027	NZ LYS B 2	12.203	99.908	60.474	1.00	21.20	B	N
ATOM	2028	C LYS B 2	6.610	100.169	56.822	1.00	19.67	B	C
ATOM	2029	O LYS B 2	5.903	99.661	57.692	1.00	20.03	B	O
ATOM	2030	N ILE B 3	6.915	99.545	55.689	1.00	18.60	B	N
ATOM	2031	CA ILE B 3	6.395	98.213	55.410	1.00	16.13	B	C
ATOM	2032	CB ILE B 3	5.409	98.250	54.232	1.00	18.20	B	C
ATOM	2033	CG2 ILE B 3	4.281	99.237	54.516	1.00	15.72	B	C
ATOM	2034	CG1 ILE B 3	6.156	98.669	52.964	1.00	17.99	B	C
ATOM	2035	CD1 ILE B 3	5.909	97.772	51.772	1.00	20.13	B	C
ATOM	2036	C ILE B 3	7.476	97.190	55.062	1.00	17.01	B	C
ATOM	2037	O ILE B 3	8.637	97.535	54.820	1.00	13.35	B	O
ATOM	2038	N GLY B 4	7.072	95.924	55.046	1.00	15.79	B	N
ATOM	2039	CA GLY B 4	7.982	94.859	54.678	1.00	13.12	B	C
ATOM	2040	C GLY B 4	7.474	94.217	53.401	1.00	12.84	B	C

Figure 4KK

ATOM	2041	O	GLY B	4	6.271	94.248	53.123	1.00	12.27	B	O
ATOM	2042	N	VAL B	5	8.387	93.670	52.602	1.00	11.41	B	N
ATOM	2043	CA	VAL B	5	8.024	92.982	51.362	1.00	12.46	B	C
ATOM	2044	CB	VAL B	5	8.471	93.755	50.092	1.00	11.43	B	C
ATOM	2045	CG1	VAL B	5	8.281	92.886	48.860	1.00	10.57	B	C
ATOM	2046	CG2	VAL B	5	7.646	95.026	49.938	1.00	13.41	B	C
ATOM	2047	C	VAL B	5	8.745	91.641	51.404	1.00	11.84	B	C
ATOM	2048	O	VAL B	5	9.964	91.591	51.565	1.00	13.84	B	O
ATOM	2049	N	PHE B	6	7.989	90.559	51.277	1.00	11.52	B	N
ATOM	2050	CA	PHE B	6	8.571	89.222	51.330	1.00	12.00	B	C
ATOM	2051	CB	PHE B	6	7.930	88.429	52.471	1.00	14.01	B	C
ATOM	2052	CG	PHE B	6	8.313	86.975	52.485	1.00	15.68	B	C
ATOM	2053	CD1	PHE B	6	9.650	86.598	52.576	1.00	15.79	B	C
ATOM	2054	CD2	PHE B	6	7.340	85.983	52.403	1.00	17.28	B	C
ATOM	2055	CE1	PHE B	6	10.017	85.251	52.584	1.00	15.22	B	C
ATOM	2056	CE2	PHE B	6	7.699	84.628	52.411	1.00	18.59	B	C
ATOM	2057	CZ	PHE B	6	9.044	84.268	52.502	1.00	15.23	B	C
ATOM	2058	C	PHE B	6	8.440	88.410	50.046	1.00	12.99	B	C
ATOM	2059	O	PHE B	6	7.396	88.412	49.400	1.00	13.52	B	O
ATOM	2060	N	ASP B	7	9.512	87.707	49.695	1.00	13.22	B	N
ATOM	2061	CA	ASP B	7	9.533	86.839	48.523	1.00	12.28	B	C
ATOM	2062	CB	ASP B	7	9.914	87.600	47.254	1.00	12.10	B	C
ATOM	2063	CG	ASP B	7	9.838	86.727	46.018	1.00	11.16	B	C
ATOM	2064	OD1	ASP B	7	8.773	86.111	45.800	1.00	11.05	B	O
ATOM	2065	OD2	ASP B	7	10.835	86.652	45.265	1.00	15.46	B	O
ATOM	2066	C	ASP B	7	10.544	85.730	48.749	1.00	12.97	B	C
ATOM	2067	O	ASP B	7	11.402	85.831	49.626	1.00	14.91	B	O
ATOM	2068	N	SER B	8	10.444	84.670	47.953	1.00	13.64	B	N
ATOM	2069	CA	SER B	8	11.367	83.551	48.076	1.00	13.32	B	C
ATOM	2070	CB	SER B	8	10.870	82.357	47.246	1.00	11.76	B	C
ATOM	2071	OG	SER B	8	10.643	82.716	45.892	1.00	12.59	B	O
ATOM	2072	C	SER B	8	12.760	83.979	47.618	1.00	12.86	B	C
ATOM	2073	O	SER B	8	13.760	83.328	47.931	1.00	15.56	B	O
ATOM	2074	N	GLY B	9	12.826	85.088	46.888	1.00	14.15	B	N
ATOM	2075	CA	GLY B	9	14.113	85.565	46.418	1.00	11.94	B	C
ATOM	2076	C	GLY B	9	14.060	86.923	45.751	1.00	13.28	B	C
ATOM	2077	O	GLY B	9	13.420	87.855	46.255	1.00	11.42	B	O
ATOM	2078	N	VAL B	10	14.731	87.031	44.608	1.00	11.70	B	N
ATOM	2079	CA	VAL B	10	14.793	88.283	43.848	1.00	13.19	B	C
ATOM	2080	CB	VAL B	10	16.035	88.301	42.931	1.00	11.94	B	C
ATOM	2081	CG1	VAL B	10	15.956	87.149	41.948	1.00	17.01	B	C
ATOM	2082	CG2	VAL B	10	16.148	89.633	42.200	1.00	12.63	B	C
ATOM	2083	C	VAL B	10	13.546	88.495	42.995	1.00	12.34	B	C
ATOM	2084	O	VAL B	10	13.267	89.604	42.550	1.00	14.01	B	O
ATOM	2085	N	GLY B	11	12.794	87.426	42.768	1.00	12.08	B	N
ATOM	2086	CA	GLY B	11	11.591	87.540	41.957	1.00	14.90	B	C
ATOM	2087	C	GLY B	11	10.634	88.640	42.373	1.00	12.77	B	C
ATOM	2088	O	GLY B	11	10.004	89.278	41.524	1.00	13.23	B	O
ATOM	2089	N	GLY B	12	10.524	88.861	43.679	1.00	13.56	B	N
ATOM	2090	CA	GLY B	12	9.639	89.887	44.198	1.00	15.76	B	C
ATOM	2091	C	GLY B	12	9.917	91.279	43.659	1.00	15.26	B	C
ATOM	2092	O	GLY B	12	9.141	92.213	43.899	1.00	15.12	B	O
ATOM	2093	N	PHE B	13	11.024	91.426	42.937	1.00	12.59	B	N
ATOM	2094	CA	PHE B	13	11.376	92.713	42.360	1.00	14.03	B	C
ATOM	2095	CB	PHE B	13	12.702	92.620	41.589	1.00	14.04	B	C
ATOM	2096	CG	PHE B	13	13.929	92.823	42.446	1.00	14.87	B	C
ATOM	2097	CD1	PHE B	13	15.133	93.231	41.868	1.00	16.32	B	C
ATOM	2098	CD2	PHE B	13	13.883	92.629	43.823	1.00	14.64	B	C

Figure 4LL

ATOM	2099	CE1 PHE B 13	16.272	93.448	42.651	1.00	13.70	B	C
ATOM	2100	CE2 PHE B 13	15.013	92.842	44.614	1.00	13.54	B	C
ATOM	2101	CZ PHE B 13	16.210	93.254	44.025	1.00	15.35	B	C
ATOM	2102	C PHE B 13	10.260	93.184	41.425	1.00	14.72	B	C
ATOM	2103	O PHE B 13	10.013	94.380	41.301	1.00	12.42	B	O
ATOM	2104	N SER B 14	9.580	92.243	40.775	1.00	14.71	B	N
ATOM	2105	CA SER B 14	8.494	92.600	39.860	1.00	14.65	B	C
ATOM	2106	CB SER B 14	7.918	91.349	39.187	1.00	14.09	B	C
ATOM	2107	OG SER B 14	7.405	90.436	40.135	1.00	13.06	B	O
ATOM	2108	C SER B 14	7.380	93.355	40.587	1.00	14.07	B	C
ATOM	2109	O SER B 14	6.688	94.187	39.994	1.00	13.89	B	O
ATOM	2110	N VAL B 15	7.212	93.064	41.872	1.00	14.55	B	N
ATOM	2111	CA VAL B 15	6.196	93.737	42.675	1.00	14.09	B	C
ATOM	2112	CB VAL B 15	5.675	92.827	43.814	1.00	12.74	B	C
ATOM	2113	CG1 VAL B 15	4.705	93.600	44.698	1.00	13.09	B	C
ATOM	2114	CG2 VAL B 15	4.971	91.604	43.224	1.00	11.77	B	C
ATOM	2115	C VAL B 15	6.789	95.003	43.283	1.00	14.70	B	C
ATOM	2116	O VAL B 15	6.145	96.052	43.307	1.00	13.74	B	O
ATOM	2117	N LEU B 16	8.022	94.903	43.769	1.00	13.69	B	N
ATOM	2118	CA LEU B 16	8.679	96.048	44.384	1.00	14.26	B	C
ATOM	2119	CB LEU B 16	10.082	95.662	44.863	1.00	13.66	B	C
ATOM	2120	CG LEU B 16	10.940	96.793	45.448	1.00	14.21	B	C
ATOM	2121	CD1 LEU B 16	10.201	97.451	46.605	1.00	12.59	B	C
ATOM	2122	CD2 LEU B 16	12.280	96.242	45.905	1.00	12.19	B	C
ATOM	2123	C LEU B 16	8.757	97.212	43.401	1.00	16.29	B	C
ATOM	2124	O LEU B 16	8.614	98.373	43.787	1.00	16.57	B	O
ATOM	2125	N LYS B 17	8.984	96.896	42.129	1.00	17.51	B	N
ATOM	2126	CA LYS B 17	9.069	97.927	41.099	1.00	19.45	B	C
ATOM	2127	CB LYS B 17	9.349	97.298	39.733	1.00	19.95	B	C
ATOM	2128	CG LYS B 17	9.302	98.291	38.578	1.00	24.40	B	C
ATOM	2129	CD LYS B 17	9.568	97.608	37.245	1.00	29.79	B	C
ATOM	2130	CE LYS B 17	9.472	98.586	36.081	1.00	33.15	B	C
ATOM	2131	NZ LYS B 17	9.808	97.925	34.784	1.00	35.04	B	N
ATOM	2132	C LYS B 17	7.769	98.722	41.038	1.00	19.40	B	C
ATOM	2133	O LYS B 17	7.788	99.950	40.985	1.00	18.81	B	O
ATOM	2134	N SER B 18	6.642	98.018	41.042	1.00	18.29	B	N
ATOM	2135	CA SER B 18	5.344	98.675	40.997	1.00	18.21	B	C
ATOM	2136	CB SER B 18	4.221	97.636	40.941	1.00	17.21	B	C
ATOM	2137	OG SER B 18	4.357	96.808	39.798	1.00	17.80	B	O
ATOM	2138	C SER B 18	5.162	99.561	42.222	1.00	19.88	B	C
ATOM	2139	O SER B 18	4.720	100.703	42.112	1.00	17.77	B	O
ATOM	2140	N LEU B 19	5.510	99.030	43.391	1.00	19.41	B	N
ATOM	2141	CA LEU B 19	5.379	99.785	44.629	1.00	19.33	B	C
ATOM	2142	CB LEU B 19	5.839	98.936	45.817	1.00	18.90	B	C
ATOM	2143	CG LEU B 19	5.085	97.622	46.027	1.00	20.11	B	C
ATOM	2144	CD1 LEU B 19	5.701	96.850	47.188	1.00	18.40	B	C
ATOM	2145	CD2 LEU B 19	3.612	97.919	46.289	1.00	17.29	B	C
ATOM	2146	C LEU B 19	6.205	101.063	44.564	1.00	18.96	B	C
ATOM	2147	O LEU B 19	5.722	102.145	44.897	1.00	19.77	B	O
ATOM	2148	N LEU B 20	7.455	100.930	44.136	1.00	19.62	B	N
ATOM	2149	CA LEU B 20	8.355	102.071	44.024	1.00	20.54	B	C
ATOM	2150	CB LEU B 20	9.736	101.605	43.548	1.00	19.03	B	C
ATOM	2151	CG LEU B 20	10.562	100.763	44.529	1.00	21.61	B	C
ATOM	2152	CD1 LEU B 20	11.789	100.217	43.824	1.00	17.66	B	C
ATOM	2153	CD2 LEU B 20	10.968	101.613	45.731	1.00	17.70	B	C
ATOM	2154	C LEU B 20	7.821	103.148	43.077	1.00	21.80	B	C
ATOM	2155	O LEU B 20	7.864	104.334	43.397	1.00	24.32	B	O
ATOM	2156	N LYS B 21	7.321	102.736	41.916	1.00	22.92	B	N

Figure 4MM

ATOM	2157	CA	LYS	B	21	6.789	103.680	40.932	1.00	25.60	B	C
ATOM	2158	CB	LYS	B	21	6.334	102.934	39.671	1.00	29.64	B	C
ATOM	2159	CG	LYS	B	21	7.412	102.050	39.049	1.00	39.78	B	C
ATOM	2160	CD	LYS	B	21	6.819	100.964	38.139	1.00	45.78	B	C
ATOM	2161	CE	LYS	B	21	6.314	101.521	36.813	1.00	49.52	B	C
ATOM	2162	NZ	LYS	B	21	7.428	101.970	35.926	1.00	52.40	B	N
ATOM	2163	C	LYS	B	21	5.610	104.455	41.513	1.00	24.12	B	C
ATOM	2164	O	LYS	B	21	5.461	105.652	41.270	1.00	21.99	B	O
ATOM	2165	N	ALA	B	22	4.775	103.762	42.281	1.00	22.32	B	N
ATOM	2166	CA	ALA	B	22	3.602	104.378	42.889	1.00	23.02	B	C
ATOM	2167	CB	ALA	B	22	2.619	103.299	43.321	1.00	21.51	B	C
ATOM	2168	C	ALA	B	22	3.950	105.279	44.074	1.00	25.48	B	C
ATOM	2169	O	ALA	B	22	3.082	105.975	44.602	1.00	26.34	B	O
ATOM	2170	N	ARG	B	23	5.214	105.264	44.489	1.00	26.06	B	N
ATOM	2171	CA	ARG	B	23	5.674	106.090	45.606	1.00	28.97	B	C
ATOM	2172	CB	ARG	B	23	5.794	107.556	45.170	1.00	33.33	B	C
ATOM	2173	CG	ARG	B	23	6.504	107.770	43.850	1.00	41.37	B	C
ATOM	2174	CD	ARG	B	23	6.349	109.205	43.378	1.00	47.44	B	C
ATOM	2175	NE	ARG	B	23	6.782	109.366	41.992	1.00	56.48	B	N
ATOM	2176	CZ	ARG	B	23	6.602	110.472	41.275	1.00	59.85	B	C
ATOM	2177	NH1	ARG	B	23	5.998	111.520	41.819	1.00	63.01	B	N
ATOM	2178	NH2	ARG	B	23	7.019	110.529	40.015	1.00	61.13	B	N
ATOM	2179	C	ARG	B	23	4.697	106.012	46.774	1.00	27.89	B	C
ATOM	2180	O	ARG	B	23	4.246	107.042	47.276	1.00	27.91	B	O
ATOM	2181	N	LEU	B	24	4.373	104.797	47.205	1.00	25.94	B	N
ATOM	2182	CA	LEU	B	24	3.430	104.611	48.303	1.00	24.48	B	C
ATOM	2183	CB	LEU	B	24	2.653	103.301	48.118	1.00	22.57	B	C
ATOM	2184	CG	LEU	B	24	1.822	103.103	46.847	1.00	24.84	B	C
ATOM	2185	CD1	LEU	B	24	1.067	101.779	46.942	1.00	23.08	B	C
ATOM	2186	CD2	LEU	B	24	0.842	104.266	46.671	1.00	23.49	B	C
ATOM	2187	C	LEU	B	24	4.048	104.617	49.699	1.00	24.22	B	C
ATOM	2188	O	LEU	B	24	3.445	105.126	50.641	1.00	25.35	B	O
ATOM	2189	N	PHE	B	25	5.250	104.068	49.842	1.00	25.14	B	N
ATOM	2190	CA	PHE	B	25	5.865	103.997	51.161	1.00	25.20	B	C
ATOM	2191	CB	PHE	B	25	6.078	102.531	51.530	1.00	24.64	B	C
ATOM	2192	CG	PHE	B	25	4.886	101.665	51.251	1.00	23.70	B	C
ATOM	2193	CD1	PHE	B	25	4.849	100.851	50.123	1.00	23.04	B	C
ATOM	2194	CD2	PHE	B	25	3.788	101.685	52.098	1.00	22.47	B	C
ATOM	2195	CE1	PHE	B	25	3.729	100.070	49.845	1.00	20.01	B	C
ATOM	2196	CE2	PHE	B	25	2.666	100.910	51.828	1.00	22.66	B	C
ATOM	2197	CZ	PHE	B	25	2.637	100.100	50.697	1.00	21.24	B	C
ATOM	2198	C	PHE	B	25	7.164	104.758	51.361	1.00	25.96	B	C
ATOM	2199	O	PHE	B	25	8.020	104.796	50.482	1.00	28.54	B	O
ATOM	2200	N	ASP	B	26	7.308	105.355	52.540	1.00	26.35	B	N
ATOM	2201	CA	ASP	B	26	8.512	106.108	52.872	1.00	28.67	B	C
ATOM	2202	CB	ASP	B	26	8.300	106.958	54.130	1.00	31.57	B	C
ATOM	2203	CG	ASP	B	26	7.335	108.101	53.907	1.00	33.21	B	C
ATOM	2204	OD1	ASP	B	26	7.429	108.753	52.844	1.00	33.40	B	O
ATOM	2205	OD2	ASP	B	26	6.495	108.352	54.800	1.00	37.72	B	O
ATOM	2206	C	ASP	B	26	9.697	105.186	53.109	1.00	25.51	B	C
ATOM	2207	O	ASP	B	26	10.840	105.567	52.877	1.00	22.85	B	O
ATOM	2208	N	GLU	B	27	9.421	103.974	53.581	1.00	24.08	B	N
ATOM	2209	CA	GLU	B	27	10.483	103.013	53.859	1.00	21.60	B	C
ATOM	2210	CB	GLU	B	27	10.964	103.179	55.305	1.00	22.98	B	C
ATOM	2211	CG	GLU	B	27	11.869	102.071	55.800	1.00	25.73	B	C
ATOM	2212	CD	GLU	B	27	12.636	102.459	57.051	1.00	30.40	B	C
ATOM	2213	OE1	GLU	B	27	12.088	103.219	57.883	1.00	28.18	B	O
ATOM	2214	OE2	GLU	B	27	13.785	101.993	57.207	1.00	28.75	B	O

Figure 4NN

ATOM	2215	C	GLU	B	27	10.036	101.576	53.601	1.00	19.70	B	C
ATOM	2216	O	GLU	B	27	8.919	101.184	53.948	1.00	17.68	B	O
ATOM	2217	N	ILE	B	28	10.926	100.795	52.995	1.00	16.91	B	N
ATOM	2218	CA	ILE	B	28	10.630	99.407	52.651	1.00	14.07	B	C
ATOM	2219	CB	ILE	B	28	10.394	99.276	51.121	1.00	15.11	B	C
ATOM	2220	CG2	ILE	B	28	10.279	97.816	50.711	1.00	15.06	B	C
ATOM	2221	CG1	ILE	B	28	9.124	100.034	50.732	1.00	15.08	B	C
ATOM	2222	CD1	ILE	B	28	8.920	100.162	49.218	1.00	17.55	B	C
ATOM	2223	C	ILE	B	28	11.740	98.446	53.069	1.00	14.73	B	C
ATOM	2224	O	ILE	B	28	12.925	98.694	52.825	1.00	14.43	B	O
ATOM	2225	N	ILE	B	29	11.348	97.357	53.720	1.00	13.73	B	N
ATOM	2226	CA	ILE	B	29	12.299	96.338	54.143	1.00	15.11	B	C
ATOM	2227	CB	ILE	B	29	12.113	95.957	55.636	1.00	14.64	B	C
ATOM	2228	CG2	ILE	B	29	13.231	95.012	56.077	1.00	13.07	B	C
ATOM	2229	CG1	ILE	B	29	12.129	97.214	56.521	1.00	16.50	B	C
ATOM	2230	CD1	ILE	B	29	13.462	97.949	56.554	1.00	12.57	B	C
ATOM	2231	C	ILE	B	29	11.989	95.121	53.262	1.00	14.26	B	C
ATOM	2232	O	ILE	B	29	10.960	94.460	53.438	1.00	16.06	B	O
ATOM	2233	N	TYR	B	30	12.857	94.855	52.293	1.00	12.97	B	N
ATOM	2234	CA	TYR	B	30	12.667	93.728	51.382	1.00	12.66	B	C
ATOM	2235	CB	TYR	B	30	13.095	94.117	49.957	1.00	11.95	B	C
ATOM	2236	CG	TYR	B	30	12.831	93.042	48.913	1.00	11.71	B	C
ATOM	2237	CD1	TYR	B	30	11.703	93.097	48.096	1.00	9.69	B	C
ATOM	2238	CE1	TYR	B	30	11.441	92.100	47.149	1.00	12.54	B	C
ATOM	2239	CD2	TYR	B	30	13.700	91.958	48.762	1.00	12.15	B	C
ATOM	2240	CE2	TYR	B	30	13.449	90.953	47.817	1.00	14.27	B	C
ATOM	2241	CZ	TYR	B	30	12.319	91.033	47.014	1.00	14.57	B	C
ATOM	2242	OH	TYR	B	30	12.078	90.061	46.070	1.00	11.66	B	O
ATOM	2243	C	TYR	B	30	13.473	92.516	51.842	1.00	15.13	B	C
ATOM	2244	O	TYR	B	30	14.673	92.624	52.115	1.00	17.82	B	O
ATOM	2245	N	TYR	B	31	12.812	91.364	51.932	1.00	13.53	B	N
ATOM	2246	CA	TYR	B	31	13.488	90.144	52.350	1.00	13.30	B	C
ATOM	2247	CB	TYR	B	31	13.063	89.742	53.773	1.00	14.35	B	C
ATOM	2248	CG	TYR	B	31	13.588	88.381	54.209	1.00	13.93	B	C
ATOM	2249	CD1	TYR	B	31	14.955	88.143	54.318	1.00	13.81	B	C
ATOM	2250	CE1	TYR	B	31	15.446	86.887	54.682	1.00	16.52	B	C
ATOM	2251	CD2	TYR	B	31	12.712	87.326	54.481	1.00	15.49	B	C
ATOM	2252	CE2	TYR	B	31	13.191	86.064	54.850	1.00	17.62	B	C
ATOM	2253	CZ	TYR	B	31	14.563	85.852	54.946	1.00	14.49	B	C
ATOM	2254	OH	TYR	B	31	15.047	84.611	55.304	1.00	14.75	B	O
ATOM	2255	C	TYR	B	31	13.188	89.005	51.382	1.00	11.69	B	C
ATOM	2256	O	TYR	B	31	12.032	88.657	51.153	1.00	12.79	B	O
ATOM	2257	N	GLY	B	32	14.246	88.440	50.812	1.00	12.78	B	N
ATOM	2258	CA	GLY	B	32	14.093	87.327	49.896	1.00	11.28	B	C
ATOM	2259	C	GLY	B	32	14.761	86.117	50.522	1.00	13.78	B	C
ATOM	2260	O	GLY	B	32	15.950	86.162	50.839	1.00	11.17	B	O
ATOM	2261	N	ASP	B	33	14.002	85.040	50.710	1.00	14.25	B	N
ATOM	2262	CA	ASP	B	33	14.540	83.819	51.306	1.00	15.29	B	C
ATOM	2263	CB	ASP	B	33	13.391	82.987	51.885	1.00	13.57	B	C
ATOM	2264	CG	ASP	B	33	13.871	81.730	52.589	1.00	14.42	B	C
ATOM	2265	OD1	ASP	B	33	15.034	81.702	53.046	1.00	14.38	B	O
ATOM	2266	OD2	ASP	B	33	13.077	80.773	52.695	1.00	14.44	B	O
ATOM	2267	C	ASP	B	33	15.288	83.049	50.226	1.00	14.09	B	C
ATOM	2268	O	ASP	B	33	15.027	81.867	49.980	1.00	12.43	B	O
ATOM	2269	N	SER	B	34	16.238	83.739	49.597	1.00	14.94	B	N
ATOM	2270	CA	SER	B	34	17.016	83.186	48.490	1.00	14.92	B	C
ATOM	2271	CB	SER	B	34	17.941	84.268	47.908	1.00	13.20	B	C
ATOM	2272	OG	SER	B	34	18.886	84.714	48.863	1.00	14.39	B	O

Figure 400

ATOM	2273	C	SER B 34	17.821	81.924	48.772	1.00	14.53	B	C
ATOM	2274	O	SER B 34	18.348	81.308	47.849	1.00	12.91	B	O
ATOM	2275	N	ALA B 35	17.930	81.535	50.034	1.00	13.97	B	N
ATOM	2276	CA	ALA B 35	18.664	80.317	50.345	1.00	15.25	B	C
ATOM	2277	CB	ALA B 35	19.050	80.297	51.820	1.00	15.69	B	C
ATOM	2278	C	ALA B 35	17.801	79.101	50.023	1.00	15.43	B	C
ATOM	2279	O	ALA B 35	18.321	78.010	49.776	1.00	13.55	B	O
ATOM	2280	N	ARG B 36	16.484	79.296	50.000	1.00	13.78	B	N
ATOM	2281	CA	ARG B 36	15.567	78.185	49.777	1.00	14.22	B	C
ATOM	2282	CB	ARG B 36	14.697	78.023	51.027	1.00	13.17	B	C
ATOM	2283	CG	ARG B 36	15.541	77.986	52.303	1.00	13.84	B	C
ATOM	2284	CD	ARG B 36	14.775	77.513	53.520	1.00	16.20	B	C
ATOM	2285	NE	ARG B 36	13.830	78.511	54.012	1.00	13.15	B	N
ATOM	2286	CZ	ARG B 36	13.310	78.500	55.235	1.00	14.54	B	C
ATOM	2287	NH1	ARG B 36	13.642	77.542	56.090	1.00	13.26	B	N
ATOM	2288	NH2	ARG B 36	12.468	79.454	55.613	1.00	15.47	B	N
ATOM	2289	C	ARG B 36	14.703	78.235	48.517	1.00	14.96	B	C
ATOM	2290	O	ARG B 36	13.971	77.288	48.220	1.00	16.93	B	O
ATOM	2291	N	VAL B 37	14.791	79.328	47.770	1.00	14.56	B	N
ATOM	2292	CA	VAL B 37	14.036	79.461	46.530	1.00	15.83	B	C
ATOM	2293	CB	VAL B 37	14.327	80.840	45.875	1.00	16.33	B	C
ATOM	2294	CG1	VAL B 37	15.775	80.909	45.422	1.00	16.98	B	C
ATOM	2295	CG2	VAL B 37	13.379	81.093	44.719	1.00	16.47	B	C
ATOM	2296	C	VAL B 37	14.452	78.312	45.587	1.00	14.68	B	C
ATOM	2297	O	VAL B 37	15.615	77.895	45.575	1.00	15.45	B	O
ATOM	2298	N	PRO B 38	13.511	77.780	44.790	1.00	14.64	B	N
ATOM	2299	CD	PRO B 38	13.845	76.783	43.755	1.00	11.60	B	C
ATOM	2300	CA	PRO B 38	12.102	78.160	44.696	1.00	14.93	B	C
ATOM	2301	CB	PRO B 38	11.743	77.754	43.271	1.00	13.51	B	C
ATOM	2302	CG	PRO B 38	12.485	76.470	43.123	1.00	15.17	B	C
ATOM	2303	C	PRO B 38	11.191	77.489	45.710	1.00	15.27	B	C
ATOM	2304	O	PRO B 38	11.510	76.437	46.274	1.00	13.54	B	O
ATOM	2305	N	TYR B 39	10.043	78.118	45.915	1.00	13.69	B	N
ATOM	2306	CA	TYR B 39	9.013	77.623	46.811	1.00	13.90	B	C
ATOM	2307	CB	TYR B 39	8.268	78.798	47.444	1.00	13.72	B	C
ATOM	2308	CG	TYR B 39	8.922	79.471	48.624	1.00	10.70	B	C
ATOM	2309	CD1	TYR B 39	10.268	79.261	48.937	1.00	10.84	B	C
ATOM	2310	CE1	TYR B 39	10.860	79.906	50.023	1.00	12.25	B	C
ATOM	2311	CD2	TYR B 39	8.186	80.344	49.426	1.00	12.79	B	C
ATOM	2312	CE2	TYR B 39	8.766	80.996	50.514	1.00	12.39	B	C
ATOM	2313	CZ	TYR B 39	10.104	80.772	50.809	1.00	13.35	B	C
ATOM	2314	OH	TYR B 39	10.674	81.405	51.893	1.00	12.01	B	O
ATOM	2315	C	TYR B 39	7.997	76.821	45.987	1.00	14.02	B	C
ATOM	2316	O	TYR B 39	7.451	75.827	46.455	1.00	15.23	B	O
ATOM	2317	N	GLY B 40	7.752	77.290	44.765	1.00	16.75	B	N
ATOM	2318	CA	GLY B 40	6.768	76.686	43.874	1.00	16.84	B	C
ATOM	2319	C	GLY B 40	6.860	75.212	43.525	1.00	16.65	B	C
ATOM	2320	O	GLY B 40	5.886	74.620	43.049	1.00	14.08	B	O
ATOM	2321	N	THR B 41	8.017	74.611	43.766	1.00	15.91	B	N
ATOM	2322	CA	THR B 41	8.225	73.204	43.440	1.00	16.59	B	C
ATOM	2323	CB	THR B 41	9.636	72.990	42.900	1.00	16.07	B	C
ATOM	2324	OG1	THR B 41	10.580	73.477	43.861	1.00	15.88	B	O
ATOM	2325	CG2	THR B 41	9.817	73.737	41.592	1.00	19.86	B	C
ATOM	2326	C	THR B 41	8.072	72.320	44.659	1.00	16.87	B	C
ATOM	2327	O	THR B 41	8.245	71.099	44.584	1.00	18.68	B	O
ATOM	2328	N	LYS B 42	7.742	72.939	45.783	1.00	16.57	B	N
ATOM	2329	CA	LYS B 42	7.647	72.178	47.002	1.00	16.66	B	C
ATOM	2330	CB	LYS B 42	8.592	72.768	48.035	1.00	15.39	B	C

Figure 4PP

ATOM	2331	CG	LYS	B	42	10.049	72.613	47.578	1.00	16.40	B	C
ATOM	2332	CD	LYS	B	42	10.942	73.766	47.995	1.00	12.99	B	C
ATOM	2333	CE	LYS	B	42	12.343	73.611	47.372	1.00	12.98	B	C
ATOM	2334	NZ	LYS	B	42	13.246	74.754	47.688	1.00	12.01	B	N
ATOM	2335	C	LYS	B	42	6.273	71.981	47.593	1.00	19.30	B	C
ATOM	2336	O	LYS	B	42	5.311	72.659	47.234	1.00	19.46	B	O
ATOM	2337	N	ASP	B	43	6.206	71.042	48.526	1.00	19.11	B	N
ATOM	2338	CA	ASP	B	43	4.903	70.766	49.089	1.00	20.39	B	C
ATOM	2339	CB	ASP	B	43	4.970	69.389	49.727	1.00	26.23	B	C
ATOM	2340	CG	ASP	B	43	3.668	68.908	50.218	1.00	34.18	B	C
ATOM	2341	OD1	ASP	B	43	3.032	69.628	51.023	1.00	35.73	B	O
ATOM	2342	OD2	ASP	B	43	3.286	67.802	49.834	1.00	34.67	B	O
ATOM	2343	C	ASP	B	43	4.324	71.860	50.037	1.00	18.74	B	C
ATOM	2344	O	ASP	B	43	5.067	72.590	50.662	1.00	17.52	B	O
ATOM	2345	N	PRO	B	44	2.970	71.973	50.139	1.00	16.86	B	N
ATOM	2346	CD	PRO	B	44	1.945	71.249	49.366	1.00	16.70	B	C
ATOM	2347	CA	PRO	B	44	2.316	72.976	51.001	1.00	15.67	B	C
ATOM	2348	CB	PRO	B	44	0.838	72.608	50.910	1.00	16.57	B	C
ATOM	2349	CG	PRO	B	44	0.714	72.164	49.520	1.00	15.09	B	C
ATOM	2350	C	PRO	B	44	2.785	73.063	52.460	1.00	14.32	B	C
ATOM	2351	O	PRO	B	44	2.975	74.159	52.984	1.00	14.18	B	O
ATOM	2352	N	THR	B	45	2.968	71.928	53.125	1.00	12.56	B	N
ATOM	2353	CA	THR	B	45	3.404	71.976	54.513	1.00	15.07	B	C
ATOM	2354	CB	THR	B	45	3.416	70.544	55.159	1.00	14.56	B	C
ATOM	2355	OG1	THR	B	45	3.473	70.671	56.582	1.00	20.74	B	O
ATOM	2356	CG2	THR	B	45	4.617	69.725	54.690	1.00	16.79	B	C
ATOM	2357	C	THR	B	45	4.773	72.673	54.661	1.00	13.75	B	C
ATOM	2358	O	THR	B	45	5.015	73.370	55.644	1.00	15.18	B	O
ATOM	2359	N	THR	B	46	5.652	72.512	53.675	1.00	14.31	B	N
ATOM	2360	CA	THR	B	46	6.978	73.138	53.708	1.00	13.76	B	C
ATOM	2361	CB	THR	B	46	7.908	72.534	52.625	1.00	15.70	B	C
ATOM	2362	OG1	THR	B	46	8.111	71.139	52.888	1.00	16.08	B	O
ATOM	2363	CG2	THR	B	46	9.257	73.237	52.611	1.00	14.55	B	C
ATOM	2364	C	THR	B	46	6.874	74.645	53.463	1.00	14.40	B	C
ATOM	2365	O	THR	B	46	7.538	75.450	54.120	1.00	12.91	B	O
ATOM	2366	N	ILE	B	47	6.029	75.016	52.509	1.00	12.98	B	N
ATOM	2367	CA	ILE	B	47	5.843	76.414	52.159	1.00	14.06	B	C
ATOM	2368	CB	ILE	B	47	4.987	76.537	50.881	1.00	12.60	B	C
ATOM	2369	CG2	ILE	B	47	4.790	78.005	50.517	1.00	13.35	B	C
ATOM	2370	CG1	ILE	B	47	5.684	75.804	49.727	1.00	14.48	B	C
ATOM	2371	CD1	ILE	B	47	4.831	75.660	48.469	1.00	13.95	B	C
ATOM	2372	C	ILE	B	47	5.193	77.190	53.305	1.00	13.29	B	C
ATOM	2373	O	ILE	B	47	5.588	78.314	53.610	1.00	12.68	B	O
ATOM	2374	N	LYS	B	48	4.199	76.594	53.948	1.00	13.12	B	N
ATOM	2375	CA	LYS	B	48	3.541	77.279	55.047	1.00	14.82	B	C
ATOM	2376	CB	LYS	B	48	2.387	76.440	55.606	1.00	15.61	B	C
ATOM	2377	CG	LYS	B	48	1.239	76.283	54.621	1.00	16.82	B	C
ATOM	2378	CD	LYS	B	48	0.021	75.649	55.261	1.00	17.71	B	C
ATOM	2379	CE	LYS	B	48	-1.123	75.558	54.259	1.00	21.58	B	C
ATOM	2380	NZ	LYS	B	48	-2.370	75.047	54.891	1.00	23.95	B	N
ATOM	2381	C	LYS	B	48	4.537	77.600	56.145	1.00	15.64	B	C
ATOM	2382	O	LYS	B	48	4.546	78.719	56.661	1.00	14.41	B	O
ATOM	2383	N	GLN	B	49	5.383	76.630	56.493	1.00	13.94	B	N
ATOM	2384	CA	GLN	B	49	6.388	76.836	57.533	1.00	14.63	B	C
ATOM	2385	CB	GLN	B	49	7.127	75.520	57.822	1.00	15.57	B	C
ATOM	2386	CG	GLN	B	49	8.185	75.577	58.930	1.00	19.33	B	C
ATOM	2387	CD	GLN	B	49	7.656	76.099	60.258	1.00	18.82	B	C
ATOM	2388	OE1	GLN	B	49	6.509	75.840	60.638	1.00	17.48	B	O

Figure 4QQ

ATOM	2389	NE2 GLN B 49	8.498	76.826	60.977	1.00	19.58	B	N
ATOM	2390	C GLN B 49	7.357	77.934	57.091	1.00	15.00	B	C
ATOM	2391	O GLN B 49	7.754	78.773	57.898	1.00	15.49	B	O
ATOM	2392	N PHE B 50	7.732	77.936	55.812	1.00	13.73	B	N
ATOM	2393	CA PHE B 50	8.617	78.978	55.297	1.00	12.73	B	C
ATOM	2394	CB PHE B 50	8.813	78.845	53.784	1.00	12.69	B	C
ATOM	2395	CG PHE B 50	9.756	77.740	53.372	1.00	14.11	B	C
ATOM	2396	CD1 PHE B 50	10.540	77.073	54.310	1.00	13.47	B	C
ATOM	2397	CD2 PHE B 50	9.884	77.396	52.028	1.00	16.97	B	C
ATOM	2398	CE1 PHE B 50	11.442	76.080	53.915	1.00	14.96	B	C
ATOM	2399	CE2 PHE B 50	10.784	76.405	51.622	1.00	16.26	B	C
ATOM	2400	CZ PHE B 50	11.563	75.747	52.569	1.00	13.12	B	C
ATOM	2401	C PHE B 50	7.999	80.348	55.586	1.00	12.88	B	C
ATOM	2402	O PHE B 50	8.690	81.281	55.998	1.00	14.04	B	O
ATOM	2403	N GLY B 51	6.692	80.460	55.353	1.00	13.99	B	N
ATOM	2404	CA GLY B 51	5.992	81.712	55.590	1.00	13.72	B	C
ATOM	2405	C GLY B 51	6.023	82.158	57.043	1.00	14.83	B	C
ATOM	2406	O GLY B 51	6.243	83.334	57.331	1.00	11.98	B	O
ATOM	2407	N LEU B 52	5.788	81.227	57.966	1.00	15.32	B	N
ATOM	2408	CA LEU B 52	5.815	81.555	59.388	1.00	18.38	B	C
ATOM	2409	CB LEU B 52	5.525	80.320	60.248	1.00	18.53	B	C
ATOM	2410	CG LEU B 52	4.074	79.939	60.511	1.00	24.25	B	C
ATOM	2411	CD1 LEU B 52	3.349	79.724	59.198	1.00	27.80	B	C
ATOM	2412	CD2 LEU B 52	4.037	78.679	61.371	1.00	26.46	B	C
ATOM	2413	C LEU B 52	7.184	82.091	59.757	1.00	18.61	B	C
ATOM	2414	O LEU B 52	7.303	83.096	60.455	1.00	21.72	B	O
ATOM	2415	N GLU B 53	8.219	81.404	59.289	1.00	18.50	B	N
ATOM	2416	CA GLU B 53	9.584	81.811	59.573	1.00	17.94	B	C
ATOM	2417	CB GLU B 53	10.551	80.751	59.038	1.00	17.42	B	C
ATOM	2418	CG GLU B 53	10.566	79.507	59.927	1.00	15.49	B	C
ATOM	2419	CD GLU B 53	11.305	78.332	59.323	1.00	17.96	B	C
ATOM	2420	OE1 GLU B 53	12.087	78.534	58.374	1.00	18.58	B	O
ATOM	2421	OE2 GLU B 53	11.105	77.201	59.813	1.00	19.70	B	O
ATOM	2422	C GLU B 53	9.897	83.193	59.005	1.00	18.71	B	C
ATOM	2423	O GLU B 53	10.680	83.945	59.579	1.00	19.86	B	O
ATOM	2424	N ALA B 54	9.271	83.537	57.885	1.00	18.53	B	N
ATOM	2425	CA ALA B 54	9.492	84.848	57.283	1.00	16.14	B	C
ATOM	2426	CB ALA B 54	8.744	84.951	55.954	1.00	13.28	B	C
ATOM	2427	C ALA B 54	9.009	85.934	58.257	1.00	18.34	B	C
ATOM	2428	O ALA B 54	9.636	86.987	58.393	1.00	16.94	B	O
ATOM	2429	N LEU B 55	7.898	85.669	58.941	1.00	17.14	B	N
ATOM	2430	CA LEU B 55	7.361	86.629	59.901	1.00	18.57	B	C
ATOM	2431	CB LEU B 55	6.118	86.060	60.594	1.00	19.89	B	C
ATOM	2432	CG LEU B 55	4.827	85.855	59.795	1.00	20.72	B	C
ATOM	2433	CD1 LEU B 55	3.771	85.221	60.706	1.00	22.99	B	C
ATOM	2434	CD2 LEU B 55	4.321	87.192	59.251	1.00	23.42	B	C
ATOM	2435	C LEU B 55	8.405	86.999	60.956	1.00	18.71	B	C
ATOM	2436	O LEU B 55	8.555	88.170	61.301	1.00	17.21	B	O
ATOM	2437	N ASP B 56	9.131	86.002	61.458	1.00	18.83	B	N
ATOM	2438	CA ASP B 56	10.151	86.241	62.474	1.00	18.36	B	C
ATOM	2439	CB ASP B 56	10.829	84.924	62.881	1.00	21.45	B	C
ATOM	2440	CG ASP B 56	9.875	83.958	63.581	1.00	24.57	B	C
ATOM	2441	OD1 ASP B 56	9.003	84.419	64.344	1.00	27.38	B	O
ATOM	2442	OD2 ASP B 56	10.005	82.729	63.383	1.00	26.87	B	O
ATOM	2443	C ASP B 56	11.211	87.240	62.014	1.00	19.11	B	C
ATOM	2444	O ASP B 56	11.669	88.082	62.792	1.00	17.72	B	O
ATOM	2445	N PHE B 57	11.598	87.154	60.746	1.00	17.66	B	N
ATOM	2446	CA PHE B 57	12.607	88.063	60.216	1.00	16.52	B	C

Figure 4RR

ATOM	2447	CB	PHE	B	57	12.867	87.794	58.732	1.00	16.73	B	C
ATOM	2448	CG	PHE	B	57	13.656	88.879	58.071	1.00	17.10	B	C
ATOM	2449	CD1	PHE	B	57	15.035	88.958	58.247	1.00	19.76	B	C
ATOM	2450	CD2	PHE	B	57	13.010	89.889	57.366	1.00	14.93	B	C
ATOM	2451	CE1	PHE	B	57	15.759	90.031	57.738	1.00	19.78	B	C
ATOM	2452	CE2	PHE	B	57	13.721	90.966	56.854	1.00	19.53	B	C
ATOM	2453	CZ	PHE	B	57	15.100	91.039	57.041	1.00	19.60	B	C
ATOM	2454	C	PHE	B	57	12.222	89.529	60.360	1.00	16.52	B	C
ATOM	2455	O	PHE	B	57	13.057	90.365	60.699	1.00	18.03	B	O
ATOM	2456	N	PHE	B	58	10.962	89.842	60.082	1.00	15.91	B	N
ATOM	2457	CA	PHE	B	58	10.497	91.222	60.144	1.00	18.80	B	C
ATOM	2458	CB	PHE	B	58	9.233	91.385	59.295	1.00	17.22	B	C
ATOM	2459	CG	PHE	B	58	9.465	91.219	57.825	1.00	18.15	B	C
ATOM	2460	CD1	PHE	B	58	9.217	90.004	57.199	1.00	18.00	B	C
ATOM	2461	CD2	PHE	B	58	9.927	92.283	57.061	1.00	17.52	B	C
ATOM	2462	CE1	PHE	B	58	9.423	89.852	55.831	1.00	16.31	B	C
ATOM	2463	CE2	PHE	B	58	10.136	92.142	55.694	1.00	16.57	B	C
ATOM	2464	CZ	PHE	B	58	9.884	90.924	55.077	1.00	17.04	B	C
ATOM	2465	C	PHE	B	58	10.224	91.809	61.522	1.00	18.66	B	C
ATOM	2466	O	PHE	B	58	10.140	93.028	61.662	1.00	21.14	B	O
ATOM	2467	N	LYS	B	59	10.080	90.958	62.531	1.00	19.45	B	N
ATOM	2468	CA	LYS	B	59	9.769	91.429	63.877	1.00	21.34	B	C
ATOM	2469	CB	LYS	B	59	9.816	90.258	64.858	1.00	22.87	B	C
ATOM	2470	CG	LYS	B	59	8.740	89.213	64.571	1.00	27.48	B	C
ATOM	2471	CD	LYS	B	59	8.762	88.088	65.585	1.00	28.84	B	C
ATOM	2472	CE	LYS	B	59	7.612	87.121	65.345	1.00	32.72	B	C
ATOM	2473	NZ	LYS	B	59	6.308	87.829	65.430	1.00	35.68	B	N
ATOM	2474	C	LYS	B	59	10.614	92.596	64.384	1.00	20.43	B	C
ATOM	2475	O	LYS	B	59	10.073	93.621	64.792	1.00	19.96	B	O
ATOM	2476	N	PRO	B	60	11.948	92.468	64.356	1.00	20.32	B	N
ATOM	2477	CD	PRO	B	60	12.784	91.337	63.911	1.00	19.12	B	C
ATOM	2478	CA	PRO	B	60	12.776	93.579	64.837	1.00	19.99	B	C
ATOM	2479	CB	PRO	B	60	14.181	92.980	64.848	1.00	21.24	B	C
ATOM	2480	CG	PRO	B	60	14.131	91.991	63.719	1.00	22.69	B	C
ATOM	2481	C	PRO	B	60	12.690	94.859	63.995	1.00	20.53	B	C
ATOM	2482	O	PRO	B	60	13.030	95.943	64.472	1.00	18.48	B	O
ATOM	2483	N	HIS	B	61	12.221	94.740	62.756	1.00	18.92	B	N
ATOM	2484	CA	HIS	B	61	12.116	95.896	61.871	1.00	20.35	B	C
ATOM	2485	CB	HIS	B	61	12.099	95.433	60.413	1.00	19.99	B	C
ATOM	2486	CG	HIS	B	61	13.409	94.875	59.953	1.00	19.89	B	C
ATOM	2487	CD2	HIS	B	61	13.820	93.599	59.768	1.00	21.62	B	C
ATOM	2488	ND1	HIS	B	61	14.499	95.673	59.678	1.00	21.05	B	N
ATOM	2489	CE1	HIS	B	61	15.526	94.912	59.343	1.00	22.27	B	C
ATOM	2490	NE2	HIS	B	61	15.142	93.649	59.390	1.00	21.05	B	N
ATOM	2491	C	HIS	B	61	10.904	96.770	62.170	1.00	21.73	B	C
ATOM	2492	O	HIS	B	61	10.808	97.899	61.691	1.00	22.05	B	O
ATOM	2493	N	GLU	B	62	9.985	96.242	62.969	1.00	21.87	B	N
ATOM	2494	CA	GLU	B	62	8.792	96.982	63.354	1.00	23.56	B	C
ATOM	2495	CB	GLU	B	62	9.181	98.106	64.318	1.00	24.92	B	C
ATOM	2496	CG	GLU	B	62	10.003	97.606	65.496	1.00	30.01	B	C
ATOM	2497	CD	GLU	B	62	10.361	98.699	66.481	1.00	33.69	B	C
ATOM	2498	OE1	GLU	B	62	10.896	99.743	66.053	1.00	35.60	B	O
ATOM	2499	OE2	GLU	B	62	10.116	98.505	67.688	1.00	36.17	B	O
ATOM	2500	C	GLU	B	62	8.044	97.552	62.157	1.00	22.92	B	C
ATOM	2501	O	GLU	B	62	7.701	98.739	62.126	1.00	21.97	B	O
ATOM	2502	N	ILE	B	63	7.795	96.706	61.164	1.00	19.69	B	N
ATOM	2503	CA	ILE	B	63	7.064	97.144	59.987	1.00	18.17	B	C
ATOM	2504	CB	ILE	B	63	7.236	96.149	58.825	1.00	17.22	B	C

Figure 4SS

ATOM	2505	CG2 ILE B 63	8.686	96.146	58.370	1.00	15.56	B	C
ATOM	2506	CG1 ILE B 63	6.817	94.746	59.269	1.00	15.21	B	C
ATOM	2507	CD1 ILE B 63	6.745	93.736	58.131	1.00	15.19	B	C
ATOM	2508	C ILE B 63	5.590	97.258	60.375	1.00	18.21	B	C
ATOM	2509	O ILE B 63	5.127	96.575	61.294	1.00	17.53	B	O
ATOM	2510	N GLU B 64	4.859	98.125	59.683	1.00	16.97	B	N
ATOM	2511	CA GLU B 64	3.445	98.349	59.985	1.00	17.61	B	C
ATOM	2512	CB GLU B 64	3.089	99.813	59.718	1.00	18.92	B	C
ATOM	2513	CG GLU B 64	3.934	100.801	60.499	1.00	23.07	B	C
ATOM	2514	CD GLU B 64	3.697	102.235	60.067	1.00	26.42	B	C
ATOM	2515	OE1 GLU B 64	2.541	102.702	60.167	1.00	28.70	B	O
ATOM	2516	OE2 GLU B 64	4.667	102.889	59.624	1.00	25.35	B	O
ATOM	2517	C GLU B 64	2.511	97.452	59.187	1.00	16.83	B	C
ATOM	2518	O GLU B 64	1.349	97.259	59.548	1.00	16.07	B	O
ATOM	2519	N LEU B 65	3.035	96.896	58.104	1.00	17.77	B	N
ATOM	2520	CA LEU B 65	2.261	96.031	57.232	1.00	16.43	B	C
ATOM	2521	CB LEU B 65	1.398	96.895	56.302	1.00	18.09	B	C
ATOM	2522	CG LEU B 65	0.640	96.266	55.133	1.00	21.97	B	C
ATOM	2523	CD1 LEU B 65	-0.529	97.164	54.757	1.00	21.04	B	C
ATOM	2524	CD2 LEU B 65	1.572	96.066	53.944	1.00	20.71	B	C
ATOM	2525	C LEU B 65	3.244	95.195	56.430	1.00	14.51	B	C
ATOM	2526	O LEU B 65	4.345	95.648	56.123	1.00	12.92	B	O
ATOM	2527	N LEU B 66	2.853	93.971	56.102	1.00	14.75	B	N
ATOM	2528	CA LEU B 66	3.722	93.092	55.329	1.00	14.89	B	C
ATOM	2529	CB LEU B 66	4.020	91.810	56.110	1.00	14.10	B	C
ATOM	2530	CG LEU B 66	4.753	90.716	55.326	1.00	16.87	B	C
ATOM	2531	CD1 LEU B 66	6.149	91.214	54.949	1.00	16.67	B	C
ATOM	2532	CD2 LEU B 66	4.844	89.433	56.169	1.00	17.63	B	C
ATOM	2533	C LEU B 66	3.091	92.722	53.995	1.00	14.55	B	C
ATOM	2534	O LEU B 66	1.911	92.374	53.923	1.00	16.90	B	O
ATOM	2535	N ILE B 67	3.884	92.813	52.937	1.00	14.59	B	N
ATOM	2536	CA ILE B 67	3.422	92.451	51.610	1.00	14.92	B	C
ATOM	2537	CB ILE B 67	3.775	93.524	50.560	1.00	17.24	B	C
ATOM	2538	CG2 ILE B 67	3.458	93.000	49.150	1.00	14.44	B	C
ATOM	2539	CG1 ILE B 67	2.995	94.815	50.846	1.00	17.41	B	C
ATOM	2540	CD1 ILE B 67	3.287	95.933	49.859	1.00	18.39	B	C
ATOM	2541	C ILE B 67	4.117	91.159	51.207	1.00	13.22	B	C
ATOM	2542	O ILE B 67	5.344	91.077	51.219	1.00	13.66	B	O
ATOM	2543	N VAL B 68	3.330	90.144	50.875	1.00	13.61	B	N
ATOM	2544	CA VAL B 68	3.898	88.878	50.430	1.00	13.77	B	C
ATOM	2545	CB VAL B 68	3.065	87.683	50.915	1.00	12.35	B	C
ATOM	2546	CG1 VAL B 68	3.692	86.381	50.426	1.00	10.26	B	C
ATOM	2547	CG2 VAL B 68	2.991	87.699	52.438	1.00	12.86	B	C
ATOM	2548	C VAL B 68	3.865	88.950	48.907	1.00	12.64	B	C
ATOM	2549	O VAL B 68	2.839	88.673	48.283	1.00	14.77	B	O
ATOM	2550	N ALA B 69	4.988	89.349	48.319	1.00	12.26	B	N
ATOM	2551	CA ALA B 69	5.101	89.499	46.870	1.00	10.06	B	C
ATOM	2552	CB ALA B 69	6.412	90.194	46.529	1.00	9.84	B	C
ATOM	2553	C ALA B 69	5.027	88.163	46.147	1.00	12.35	B	C
ATOM	2554	O ALA B 69	4.635	88.096	44.980	1.00	9.71	B	O
ATOM	2555	N CYS B 70	5.427	87.104	46.844	1.00	11.11	B	N
ATOM	2556	CA CYS B 70	5.418	85.766	46.273	1.00	11.24	B	C
ATOM	2557	CB CYS B 70	6.207	84.816	47.176	1.00	11.62	B	C
ATOM	2558	SG CYS B 70	6.347	83.142	46.504	1.00	12.64	B	S
ATOM	2559	C CYS B 70	4.001	85.229	46.070	1.00	11.05	B	C
ATOM	2560	O CYS B 70	3.205	85.177	47.010	1.00	11.37	B	O
ATOM	2561	N ASN B 71	3.688	84.823	44.840	1.00	12.49	B	N
ATOM	2562	CA ASN B 71	2.365	84.279	44.543	1.00	11.50	B	C

Figure 4TT

ATOM	2563	CB	ASN	B	71	2.157	84.145	43.031	1.00	9.14	B	C
ATOM	2564	CG	ASN	B	71	2.258	85.471	42.306	1.00	11.76	B	C
ATOM	2565	OD1	ASN	B	71	3.344	86.024	42.151	1.00	10.78	B	O
ATOM	2566	ND2	ASN	B	71	1.117	85.996	41.867	1.00	11.54	B	N
ATOM	2567	C	ASN	B	71	2.192	82.909	45.186	1.00	12.35	B	C
ATOM	2568	O	ASN	B	71	1.078	82.526	45.575	1.00	8.22	B	O
ATOM	2569	N	THR	B	72	3.292	82.164	45.270	1.00	11.41	B	N
ATOM	2570	CA	THR	B	72	3.257	80.831	45.863	1.00	12.16	B	C
ATOM	2571	CB	THR	B	72	4.572	80.062	45.611	1.00	13.52	B	C
ATOM	2572	OG1	THR	B	72	4.704	79.791	44.212	1.00	14.69	B	O
ATOM	2573	CG2	THR	B	72	4.581	78.741	46.380	1.00	11.87	B	C
ATOM	2574	C	THR	B	72	3.012	80.915	47.357	1.00	12.59	B	C
ATOM	2575	O	THR	B	72	2.166	80.200	47.892	1.00	14.73	B	O
ATOM	2576	N	ALA	B	73	3.754	81.784	48.034	1.00	13.02	B	N
ATOM	2577	CA	ALA	B	73	3.576	81.953	49.471	1.00	13.51	B	C
ATOM	2578	CB	ALA	B	73	4.676	82.830	50.044	1.00	13.14	B	C
ATOM	2579	C	ALA	B	73	2.206	82.571	49.739	1.00	13.74	B	C
ATOM	2580	O	ALA	B	73	1.580	82.278	50.752	1.00	12.89	B	O
ATOM	2581	N	SER	B	74	1.751	83.437	48.830	1.00	14.66	B	N
ATOM	2582	CA	SER	B	74	0.439	84.066	48.967	1.00	14.25	B	C
ATOM	2583	CB	SER	B	74	0.212	85.099	47.853	1.00	13.54	B	C
ATOM	2584	OG	SER	B	74	0.996	86.268	48.040	1.00	13.45	B	O
ATOM	2585	C	SER	B	74	-0.655	83.002	48.877	1.00	16.32	B	C
ATOM	2586	O	SER	B	74	-1.668	83.065	49.575	1.00	14.08	B	O
ATOM	2587	N	ALA	B	75	-0.443	82.028	48.002	1.00	16.22	B	N
ATOM	2588	CA	ALA	B	75	-1.416	80.966	47.797	1.00	17.85	B	C
ATOM	2589	CB	ALA	B	75	-1.170	80.291	46.449	1.00	18.98	B	C
ATOM	2590	C	ALA	B	75	-1.438	79.911	48.890	1.00	18.56	B	C
ATOM	2591	O	ALA	B	75	-2.498	79.377	49.217	1.00	19.22	B	O
ATOM	2592	N	LEU	B	76	-0.274	79.608	49.455	1.00	17.86	B	N
ATOM	2593	CA	LEU	B	76	-0.196	78.570	50.473	1.00	19.90	B	C
ATOM	2594	CB	LEU	B	76	0.921	77.580	50.131	1.00	19.60	B	C
ATOM	2595	CG	LEU	B	76	0.703	76.565	49.004	1.00	21.94	B	C
ATOM	2596	CD1	LEU	B	76	-0.579	75.764	49.283	1.00	19.11	B	C
ATOM	2597	CD2	LEU	B	76	0.610	77.284	47.670	1.00	23.22	B	C
ATOM	2598	C	LEU	B	76	-0.021	78.978	51.925	1.00	19.97	B	C
ATOM	2599	O	LEU	B	76	-0.643	78.388	52.800	1.00	19.54	B	O
ATOM	2600	N	ALA	B	77	0.815	79.980	52.183	1.00	20.55	B	N
ATOM	2601	CA	ALA	B	77	1.111	80.380	53.559	1.00	22.00	B	C
ATOM	2602	CB	ALA	B	77	2.616	80.581	53.700	1.00	20.40	B	C
ATOM	2603	C	ALA	B	77	0.392	81.590	54.149	1.00	21.97	B	C
ATOM	2604	O	ALA	B	77	0.420	81.792	55.365	1.00	17.66	B	O
ATOM	2605	N	LEU	B	78	-0.247	82.386	53.299	1.00	23.46	B	N
ATOM	2606	CA	LEU	B	78	-0.916	83.595	53.757	1.00	24.17	B	C
ATOM	2607	CB	LEU	B	78	-1.634	84.271	52.583	1.00	23.46	B	C
ATOM	2608	CG	LEU	B	78	-2.166	85.692	52.799	1.00	24.62	B	C
ATOM	2609	CD1	LEU	B	78	-1.042	86.612	53.256	1.00	25.18	B	C
ATOM	2610	CD2	LEU	B	78	-2.770	86.204	51.499	1.00	21.11	B	C
ATOM	2611	C	LEU	B	78	-1.885	83.387	54.918	1.00	23.63	B	C
ATOM	2612	O	LEU	B	78	-1.820	84.098	55.918	1.00	20.90	B	O
ATOM	2613	N	GLU	B	79	-2.775	82.410	54.798	1.00	24.20	B	N
ATOM	2614	CA	GLU	B	79	-3.744	82.171	55.856	1.00	25.27	B	C
ATOM	2615	CB	GLU	B	79	-4.643	80.987	55.496	1.00	27.94	B	C
ATOM	2616	CG	GLU	B	79	-5.845	80.830	56.417	1.00	34.09	B	C
ATOM	2617	CD	GLU	B	79	-6.760	79.694	55.997	1.00	36.98	B	C
ATOM	2618	OE1	GLU	B	79	-7.246	79.714	54.847	1.00	38.97	B	O
ATOM	2619	OE2	GLU	B	79	-6.994	78.781	56.818	1.00	40.71	B	O
ATOM	2620	C	GLU	B	79	-3.066	81.921	57.199	1.00	24.66	B	C

Figure 4UU

ATOM	2621	O	GLU	B	79	-3.434	82.519	58.208	1.00	21.76	B	O
ATOM	2622	N	GLU	B	80	-2.063	81.050	57.213	1.00	25.11	B	N
ATOM	2623	CA	GLU	B	80	-1.367	80.740	58.455	1.00	25.16	B	C
ATOM	2624	CB	GLU	B	80	-0.425	79.549	58.249	1.00	30.59	B	C
ATOM	2625	CG	GLU	B	80	-0.324	78.632	59.464	1.00	36.68	B	C
ATOM	2626	CD	GLU	B	80	-1.674	78.055	59.876	1.00	39.61	B	C
ATOM	2627	OE1	GLU	B	80	-2.275	77.297	59.085	1.00	42.54	B	O
ATOM	2628	OE2	GLU	B	80	-2.139	78.363	60.993	1.00	41.38	B	O
ATOM	2629	C	GLU	B	80	-0.587	81.942	58.987	1.00	24.73	B	C
ATOM	2630	O	GLU	B	80	-0.590	82.211	60.190	1.00	24.93	B	O
ATOM	2631	N	MET	B	81	0.072	82.670	58.092	1.00	22.49	B	N
ATOM	2632	CA	MET	B	81	0.851	83.838	58.492	1.00	20.82	B	C
ATOM	2633	CB	MET	B	81	1.559	84.437	57.275	1.00	18.38	B	C
ATOM	2634	CG	MET	B	81	2.671	83.563	56.717	1.00	18.17	B	C
ATOM	2635	SD	MET	B	81	3.255	84.147	55.112	1.00	17.68	B	S
ATOM	2636	CE	MET	B	81	4.308	85.481	55.573	1.00	12.45	B	C
ATOM	2637	C	MET	B	81	-0.015	84.907	59.155	1.00	20.81	B	C
ATOM	2638	O	MET	B	81	0.382	85.508	60.154	1.00	19.23	B	O
ATOM	2639	N	GLN	B	82	-1.193	85.145	58.589	1.00	20.82	B	N
ATOM	2640	CA	GLN	B	82	-2.111	86.145	59.129	1.00	22.97	B	C
ATOM	2641	CB	GLN	B	82	-3.286	86.367	58.168	1.00	23.14	B	C
ATOM	2642	CG	GLN	B	82	-2.861	86.867	56.787	1.00	22.68	B	C
ATOM	2643	CD	GLN	B	82	-4.024	87.016	55.821	1.00	25.48	B	C
ATOM	2644	OE1	GLN	B	82	-4.830	86.097	55.650	1.00	24.87	B	O
ATOM	2645	NE2	GLN	B	82	-4.110	88.175	55.172	1.00	25.37	B	N
ATOM	2646	C	GLN	B	82	-2.627	85.695	60.482	1.00	22.69	B	C
ATOM	2647	O	GLN	B	82	-2.905	86.514	61.357	1.00	22.32	B	O
ATOM	2648	N	LYS	B	83	-2.752	84.387	60.656	1.00	24.09	B	N
ATOM	2649	CA	LYS	B	83	-3.235	83.851	61.918	1.00	25.60	B	C
ATOM	2650	CB	LYS	B	83	-3.376	82.328	61.829	1.00	27.86	B	C
ATOM	2651	CG	LYS	B	83	-3.766	81.658	63.141	1.00	32.07	B	C
ATOM	2652	CD	LYS	B	83	-3.799	80.148	62.990	1.00	33.64	B	C
ATOM	2653	CE	LYS	B	83	-4.118	79.453	64.308	1.00	38.06	B	C
ATOM	2654	NZ	LYS	B	83	-4.127	77.965	64.142	1.00	38.15	B	N
ATOM	2655	C	LYS	B	83	-2.298	84.218	63.065	1.00	25.66	B	C
ATOM	2656	O	LYS	B	83	-2.750	84.586	64.149	1.00	23.94	B	O
ATOM	2657	N	TYR	B	84	-0.993	84.134	62.825	1.00	25.08	B	N
ATOM	2658	CA	TYR	B	84	-0.022	84.442	63.870	1.00	24.54	B	C
ATOM	2659	CB	TYR	B	84	1.063	83.367	63.913	1.00	27.22	B	C
ATOM	2660	CG	TYR	B	84	0.542	81.986	64.219	1.00	30.76	B	C
ATOM	2661	CD1	TYR	B	84	0.162	81.119	63.195	1.00	31.28	B	C
ATOM	2662	CE1	TYR	B	84	-0.325	79.844	63.476	1.00	34.59	B	C
ATOM	2663	CD2	TYR	B	84	0.421	81.546	65.538	1.00	32.96	B	C
ATOM	2664	CE2	TYR	B	84	-0.066	80.276	65.832	1.00	35.61	B	C
ATOM	2665	CZ	TYR	B	84	-0.435	79.430	64.797	1.00	36.06	B	C
ATOM	2666	OH	TYR	B	84	-0.904	78.167	65.089	1.00	37.33	B	O
ATOM	2667	C	TYR	B	84	0.641	85.808	63.764	1.00	23.89	B	C
ATOM	2668	O	TYR	B	84	1.704	86.030	64.341	1.00	25.50	B	O
ATOM	2669	N	SER	B	85	0.014	86.726	63.040	1.00	22.10	B	N
ATOM	2670	CA	SER	B	85	0.563	88.067	62.874	1.00	21.74	B	C
ATOM	2671	CB	SER	B	85	0.884	88.323	61.397	1.00	19.79	B	C
ATOM	2672	OG	SER	B	85	1.259	89.673	61.181	1.00	25.60	B	O
ATOM	2673	C	SER	B	85	-0.413	89.127	63.374	1.00	21.62	B	C
ATOM	2674	O	SER	B	85	-1.621	89.009	63.177	1.00	21.34	B	O
ATOM	2675	N	LYS	B	86	0.107	90.157	64.031	1.00	20.33	B	N
ATOM	2676	CA	LYS	B	86	-0.750	91.221	64.519	1.00	22.30	B	C
ATOM	2677	CB	LYS	B	86	-0.235	91.776	65.853	1.00	25.37	B	C
ATOM	2678	CG	LYS	B	86	1.182	92.304	65.826	1.00	31.07	B	C

Figure 4VV

ATOM	2679	CD	LYS	B	86	1.629	92.685	67.231	1.00	35.40	B	C
ATOM	2680	CE	LYS	B	86	1.562	91.486	68.175	1.00	35.66	B	C
ATOM	2681	NZ	LYS	B	86	1.952	91.849	69.565	1.00	39.76	B	N
ATOM	2682	C	LYS	B	86	-0.860	92.333	63.482	1.00	22.13	B	C
ATOM	2683	O	LYS	B	86	-1.871	93.028	63.433	1.00	23.41	B	O
ATOM	2684	N	ILE	B	87	0.169	92.499	62.649	1.00	20.24	B	N
ATOM	2685	CA	ILE	B	87	0.127	93.524	61.605	1.00	18.31	B	C
ATOM	2686	CB	ILE	B	87	1.543	94.004	61.181	1.00	16.92	B	C
ATOM	2687	CG2	ILE	B	87	2.244	94.688	62.359	1.00	18.70	B	C
ATOM	2688	CG1	ILE	B	87	2.361	92.822	60.650	1.00	17.63	B	C
ATOM	2689	CD1	ILE	B	87	3.721	93.203	60.117	1.00	17.00	B	C
ATOM	2690	C	ILE	B	87	-0.559	92.921	60.384	1.00	17.72	B	C
ATOM	2691	O	ILE	B	87	-0.553	91.707	60.193	1.00	18.08	B	O
ATOM	2692	N	PRO	B	88	-1.173	93.762	59.542	1.00	18.77	B	N
ATOM	2693	CD	PRO	B	88	-1.340	95.223	59.619	1.00	17.15	B	C
ATOM	2694	CA	PRO	B	88	-1.839	93.216	58.358	1.00	19.35	B	C
ATOM	2695	CB	PRO	B	88	-2.575	94.428	57.789	1.00	20.10	B	C
ATOM	2696	CG	PRO	B	88	-1.691	95.572	58.194	1.00	21.95	B	C
ATOM	2697	C	PRO	B	88	-0.844	92.619	57.360	1.00	18.71	B	C
ATOM	2698	O	PRO	B	88	0.247	93.148	57.163	1.00	18.85	B	O
ATOM	2699	N	ILE	B	89	-1.222	91.498	56.759	1.00	17.91	B	N
ATOM	2700	CA	ILE	B	89	-0.387	90.848	55.757	1.00	17.91	B	C
ATOM	2701	CB	ILE	B	89	-0.011	89.404	56.164	1.00	18.44	B	C
ATOM	2702	CG2	ILE	B	89	0.952	88.807	55.133	1.00	18.14	B	C
ATOM	2703	CG1	ILE	B	89	0.658	89.408	57.543	1.00	21.01	B	C
ATOM	2704	CD1	ILE	B	89	1.125	88.043	58.007	1.00	18.58	B	C
ATOM	2705	C	ILE	B	89	-1.202	90.823	54.466	1.00	17.23	B	C
ATOM	2706	O	ILE	B	89	-2.323	90.305	54.425	1.00	17.75	B	O
ATOM	2707	N	VAL	B	90	-0.642	91.403	53.414	1.00	16.10	B	N
ATOM	2708	CA	VAL	B	90	-1.334	91.467	52.141	1.00	15.66	B	C
ATOM	2709	CB	VAL	B	90	-1.436	92.934	51.651	1.00	17.82	B	C
ATOM	2710	CG1	VAL	B	90	-2.241	93.001	50.351	1.00	17.58	B	C
ATOM	2711	CG2	VAL	B	90	-2.074	93.805	52.739	1.00	18.13	B	C
ATOM	2712	C	VAL	B	90	-0.612	90.640	51.088	1.00	13.43	B	C
ATOM	2713	O	VAL	B	90	0.567	90.869	50.812	1.00	14.69	B	O
ATOM	2714	N	GLY	B	91	-1.332	89.681	50.511	1.00	13.52	B	N
ATOM	2715	CA	GLY	B	91	-0.773	88.827	49.474	1.00	12.39	B	C
ATOM	2716	C	GLY	B	91	-1.085	89.387	48.093	1.00	14.87	B	C
ATOM	2717	O	GLY	B	91	-1.754	90.414	47.982	1.00	13.52	B	O
ATOM	2718	N	VAL	B	92	-0.618	88.715	47.041	1.00	13.75	B	N
ATOM	2719	CA	VAL	B	92	-0.840	89.190	45.676	1.00	14.98	B	C
ATOM	2720	CB	VAL	B	92	0.447	89.066	44.819	1.00	14.03	B	C
ATOM	2721	CG1	VAL	B	92	1.442	90.130	45.234	1.00	9.89	B	C
ATOM	2722	CG2	VAL	B	92	1.056	87.672	44.978	1.00	12.60	B	C
ATOM	2723	C	VAL	B	92	-1.975	88.505	44.922	1.00	16.65	B	C
ATOM	2724	O	VAL	B	92	-2.194	88.786	43.746	1.00	17.87	B	O
ATOM	2725	N	ILE	B	93	-2.702	87.616	45.585	1.00	16.90	B	N
ATOM	2726	CA	ILE	B	93	-3.798	86.933	44.909	1.00	17.60	B	C
ATOM	2727	CB	ILE	B	93	-3.993	85.514	45.469	1.00	18.08	B	C
ATOM	2728	CG2	ILE	B	93	-5.148	84.825	44.757	1.00	15.25	B	C
ATOM	2729	CG1	ILE	B	93	-2.693	84.722	45.291	1.00	18.10	B	C
ATOM	2730	CD1	ILE	B	93	-2.803	83.256	45.609	1.00	20.71	B	C
ATOM	2731	C	ILE	B	93	-5.125	87.693	44.971	1.00	18.37	B	C
ATOM	2732	O	ILE	B	93	-5.720	87.983	43.930	1.00	19.27	B	O
ATOM	2733	N	GLU	B	94	-5.590	88.021	46.176	1.00	18.78	B	N
ATOM	2734	CA	GLU	B	94	-6.859	88.742	46.315	1.00	21.11	B	C
ATOM	2735	CB	GLU	B	94	-7.198	88.977	47.789	1.00	23.95	B	C
ATOM	2736	CG	GLU	B	94	-7.565	87.705	48.536	1.00	28.58	B	C

Figure 4WW

ATOM	2737	CD	GLU	B	94	-8.651	86.906	47.831	1.00	33.34	B	C
ATOM	2738	OE1	GLU	B	94	-9.700	87.494	47.484	1.00	32.87	B	O
ATOM	2739	OE2	GLU	B	94	-8.453	85.686	47.627	1.00	36.08	B	O
ATOM	2740	C	GLU	B	94	-6.873	90.073	45.568	1.00	20.94	B	C
ATOM	2741	O	GLU	B	94	-7.882	90.439	44.960	1.00	21.06	B	O
ATOM	2742	N	PRO	B	95	-5.760	90.823	45.615	1.00	19.29	B	N
ATOM	2743	CD	PRO	B	95	-4.581	90.667	46.487	1.00	17.34	B	C
ATOM	2744	CA	PRO	B	95	-5.714	92.108	44.909	1.00	19.84	B	C
ATOM	2745	CB	PRO	B	95	-4.301	92.603	45.196	1.00	18.81	B	C
ATOM	2746	CG	PRO	B	95	-4.058	92.087	46.580	1.00	19.00	B	C
ATOM	2747	C	PRO	B	95	-5.971	91.933	43.415	1.00	18.63	B	C
ATOM	2748	O	PRO	B	95	-6.588	92.786	42.771	1.00	19.30	B	O
ATOM	2749	N	SER	B	96	-5.485	90.824	42.867	1.00	20.23	B	N
ATOM	2750	CA	SER	B	96	-5.661	90.532	41.451	1.00	19.54	B	C
ATOM	2751	CB	SER	B	96	-4.752	89.380	41.032	1.00	20.19	B	C
ATOM	2752	OG	SER	B	96	-3.398	89.803	41.022	1.00	21.10	B	O
ATOM	2753	C	SER	B	96	-7.107	90.194	41.137	1.00	19.82	B	C
ATOM	2754	O	SER	B	96	-7.623	90.554	40.076	1.00	18.36	B	O
ATOM	2755	N	ILE	B	97	-7.761	89.496	42.060	1.00	19.40	B	N
ATOM	2756	CA	ILE	B	97	-9.159	89.129	41.869	1.00	21.46	B	C
ATOM	2757	CB	ILE	B	97	-9.702	88.310	43.066	1.00	20.75	B	C
ATOM	2758	CG2	ILE	B	97	-11.185	88.032	42.872	1.00	23.74	B	C
ATOM	2759	CG1	ILE	B	97	-8.929	86.996	43.205	1.00	20.33	B	C
ATOM	2760	CD1	ILE	B	97	-9.130	86.028	42.048	1.00	18.39	B	C
ATOM	2761	C	ILE	B	97	-9.985	90.408	41.741	1.00	20.42	B	C
ATOM	2762	O	ILE	B	97	-10.881	90.502	40.904	1.00	21.88	B	O
ATOM	2763	N	LEU	B	98	-9.670	91.393	42.575	1.00	22.89	B	N
ATOM	2764	CA	LEU	B	98	-10.378	92.668	42.561	1.00	22.94	B	C
ATOM	2765	CB	LEU	B	98	-9.918	93.539	43.734	1.00	24.42	B	C
ATOM	2766	CG	LEU	B	98	-10.197	92.998	45.143	1.00	24.87	B	C
ATOM	2767	CD1	LEU	B	98	-9.532	93.893	46.172	1.00	27.53	B	C
ATOM	2768	CD2	LEU	B	98	-11.701	92.922	45.389	1.00	25.92	B	C
ATOM	2769	C	LEU	B	98	-10.150	93.411	41.249	1.00	23.55	B	C
ATOM	2770	O	LEU	B	98	-11.067	94.032	40.708	1.00	24.17	B	O
ATOM	2771	N	ALA	B	99	-8.924	93.351	40.740	1.00	23.11	B	N
ATOM	2772	CA	ALA	B	99	-8.594	94.025	39.491	1.00	22.89	B	C
ATOM	2773	CB	ALA	B	99	-7.110	93.904	39.208	1.00	22.27	B	C
ATOM	2774	C	ALA	B	99	-9.390	93.395	38.362	1.00	21.70	B	C
ATOM	2775	O	ALA	B	99	-9.921	94.090	37.497	1.00	18.65	B	O
ATOM	2776	N	ILE	B	100	-9.457	92.068	38.377	1.00	19.64	B	N
ATOM	2777	CA	ILE	B	100	-10.190	91.331	37.363	1.00	19.82	B	C
ATOM	2778	CB	ILE	B	100	-10.044	89.803	37.568	1.00	21.33	B	C
ATOM	2779	CG2	ILE	B	100	-11.118	89.054	36.784	1.00	19.75	B	C
ATOM	2780	CG1	ILE	B	100	-8.644	89.357	37.134	1.00	20.47	B	C
ATOM	2781	CD1	ILE	B	100	-8.425	87.859	37.227	1.00	23.03	B	C
ATOM	2782	C	ILE	B	100	-11.664	91.717	37.413	1.00	20.18	B	C
ATOM	2783	O	ILE	B	100	-12.310	91.842	36.378	1.00	17.92	B	O
ATOM	2784	N	LYS	B	101	-12.192	91.910	38.617	1.00	21.96	B	N
ATOM	2785	CA	LYS	B	101	-13.594	92.296	38.755	1.00	24.71	B	C
ATOM	2786	CB	LYS	B	101	-13.980	92.434	40.229	1.00	25.47	B	C
ATOM	2787	CG	LYS	B	101	-14.034	91.120	40.988	1.00	30.47	B	C
ATOM	2788	CD	LYS	B	101	-14.348	91.358	42.460	1.00	36.47	B	C
ATOM	2789	CE	LYS	B	101	-15.720	91.992	42.654	1.00	39.30	B	C
ATOM	2790	NZ	LYS	B	101	-15.973	92.336	44.087	1.00	42.89	B	N
ATOM	2791	C	LYS	B	101	-13.831	93.623	38.041	1.00	24.26	B	C
ATOM	2792	O	LYS	B	101	-14.846	93.797	37.369	1.00	25.28	B	O
ATOM	2793	N	ARG	B	102	-12.886	94.548	38.185	1.00	23.53	B	N
ATOM	2794	CA	ARG	B	102	-12.986	95.865	37.559	1.00	24.45	B	C

Figure 4XX

ATOM	2795	CB	ARG B 102	-11.976	96.835	38.182	1.00	24.23	B	C
ATOM	2796	CG	ARG B 102	-12.234	97.217	39.625	1.00	25.40	B	C
ATOM	2797	CD	ARG B 102	-11.276	98.316	40.054	1.00	26.37	B	C
ATOM	2798	NE	ARG B 102	-9.888	97.863	40.086	1.00	27.81	B	N
ATOM	2799	CZ	ARG B 102	-9.328	97.229	41.114	1.00	27.91	B	C
ATOM	2800	NH1	ARG B 102	-10.035	96.972	42.206	1.00	27.77	B	N
ATOM	2801	NH2	ARG B 102	-8.058	96.857	41.051	1.00	22.49	B	N
ATOM	2802	C	ARG B 102	-12.747	95.846	36.051	1.00	23.56	B	C
ATOM	2803	O	ARG B 102	-13.394	96.576	35.306	1.00	21.65	B	O
ATOM	2804	N	GLN B 103	-11.816	95.010	35.605	1.00	22.46	B	N
ATOM	2805	CA	GLN B 103	-11.474	94.951	34.189	1.00	22.58	B	C
ATOM	2806	CB	GLN B 103	-9.972	94.728	34.036	1.00	21.32	B	C
ATOM	2807	CG	GLN B 103	-9.126	95.766	34.733	1.00	22.61	B	C
ATOM	2808	CD	GLN B 103	-7.659	95.405	34.712	1.00	22.94	B	C
ATOM	2809	OE1	GLN B 103	-7.074	95.216	33.647	1.00	24.42	B	O
ATOM	2810	NE2	GLN B 103	-7.055	95.305	35.890	1.00	22.74	B	N
ATOM	2811	C	GLN B 103	-12.206	93.918	33.349	1.00	22.98	B	C
ATOM	2812	O	GLN B 103	-12.221	94.020	32.126	1.00	23.73	B	O
ATOM	2813	N	VAL B 104	-12.807	92.925	33.989	1.00	22.89	B	N
ATOM	2814	CA	VAL B 104	-13.500	91.881	33.241	1.00	24.65	B	C
ATOM	2815	CB	VAL B 104	-12.796	90.518	33.427	1.00	25.96	B	C
ATOM	2816	CG1	VAL B 104	-13.465	89.462	32.568	1.00	25.99	B	C
ATOM	2817	CG2	VAL B 104	-11.321	90.643	33.066	1.00	24.05	B	C
ATOM	2818	C	VAL B 104	-14.957	91.752	33.663	1.00	26.14	B	C
ATOM	2819	O	VAL B 104	-15.284	90.975	34.557	1.00	23.04	B	O
ATOM	2820	N	GLU B 105	-15.821	92.515	33.000	1.00	28.13	B	N
ATOM	2821	CA	GLU B 105	-17.253	92.520	33.289	1.00	31.78	B	C
ATOM	2822	CB	GLU B 105	-17.923	93.703	32.581	1.00	37.19	B	C
ATOM	2823	CG	GLU B 105	-17.318	95.053	32.940	1.00	47.02	B	C
ATOM	2824	CD	GLU B 105	-17.983	96.226	32.231	1.00	50.74	B	C
ATOM	2825	OE1	GLU B 105	-18.016	96.247	30.979	1.00	51.99	B	O
ATOM	2826	OE2	GLU B 105	-18.469	97.136	32.933	1.00	54.70	B	O
ATOM	2827	C	GLU B 105	-17.953	91.231	32.877	1.00	29.48	B	C
ATOM	2828	O	GLU B 105	-18.915	90.807	33.518	1.00	32.30	B	O
ATOM	2829	N	ASP B 106	-17.471	90.608	31.808	1.00	27.12	B	N
ATOM	2830	CA	ASP B 106	-18.067	89.377	31.310	1.00	26.01	B	C
ATOM	2831	CB	ASP B 106	-17.666	89.167	29.850	1.00	26.98	B	C
ATOM	2832	CG	ASP B 106	-18.215	87.881	29.272	1.00	28.23	B	C
ATOM	2833	OD1	ASP B 106	-19.054	87.232	29.930	1.00	28.83	B	O
ATOM	2834	OD2	ASP B 106	-17.807	87.521	28.147	1.00	31.85	B	O
ATOM	2835	C	ASP B 106	-17.666	88.168	32.147	1.00	25.85	B	C
ATOM	2836	O	ASP B 106	-16.517	87.736	32.118	1.00	24.84	B	O
ATOM	2837	N	LYS B 107	-18.628	87.626	32.890	1.00	25.49	B	N
ATOM	2838	CA	LYS B 107	-18.396	86.472	33.754	1.00	27.31	B	C
ATOM	2839	CB	LYS B 107	-19.633	86.210	34.622	1.00	29.26	B	C
ATOM	2840	CG	LYS B 107	-19.948	87.328	35.600	1.00	32.01	B	C
ATOM	2841	CD	LYS B 107	-18.757	87.611	36.512	1.00	33.91	B	C
ATOM	2842	CE	LYS B 107	-19.056	88.718	37.516	1.00	34.29	B	C
ATOM	2843	NZ	LYS B 107	-19.369	90.016	36.853	1.00	41.19	B	N
ATOM	2844	C	LYS B 107	-18.044	85.203	32.991	1.00	26.67	B	C
ATOM	2845	O	LYS B 107	-17.508	84.254	33.565	1.00	28.78	B	O
ATOM	2846	N	ASN B 108	-18.337	85.187	31.698	1.00	26.36	B	N
ATOM	2847	CA	ASN B 108	-18.059	84.019	30.875	1.00	27.30	B	C
ATOM	2848	CB	ASN B 108	-19.176	83.833	29.848	1.00	32.21	B	C
ATOM	2849	CG	ASN B 108	-20.509	83.515	30.496	1.00	37.21	B	C
ATOM	2850	OD1	ASN B 108	-20.670	82.470	31.130	1.00	41.66	B	O
ATOM	2851	ND2	ASN B 108	-21.473	84.420	30.350	1.00	39.88	B	N
ATOM	2852	C	ASN B 108	-16.719	84.106	30.160	1.00	25.00	B	C

Figure 4YY

ATOM	2853	O	ASN B 108	-16.318	83.173	29.467	1.00	27.12	B	O
ATOM	2854	N	ALA B 109	-16.029	85.227	30.333	1.00	22.44	B	N
ATOM	2855	CA	ALA B 109	-14.734	85.427	29.696	1.00	22.32	B	C
ATOM	2856	CB	ALA B 109	-14.179	86.795	30.062	1.00	19.60	B	C
ATOM	2857	C	ALA B 109	-13.768	84.334	30.133	1.00	21.09	B	C
ATOM	2858	O	ALA B 109	-13.580	84.107	31.326	1.00	21.33	B	O
ATOM	2859	N	PRO B 110	-13.152	83.635	29.168	1.00	21.10	B	N
ATOM	2860	CD	PRO B 110	-13.315	83.775	27.711	1.00	21.88	B	C
ATOM	2861	CA	PRO B 110	-12.201	82.562	29.485	1.00	21.55	B	C
ATOM	2862	CB	PRO B 110	-11.843	81.988	28.111	1.00	20.46	B	C
ATOM	2863	CG	PRO B 110	-13.002	82.387	27.233	1.00	23.31	B	C
ATOM	2864	C	PRO B 110	-10.974	83.142	30.190	1.00	21.39	B	C
ATOM	2865	O	PRO B 110	-10.243	83.950	29.615	1.00	20.23	B	O
ATOM	2866	N	ILE B 111	-10.757	82.731	31.433	1.00	20.74	B	N
ATOM	2867	CA	ILE B 111	-9.621	83.220	32.208	1.00	21.29	B	C
ATOM	2868	CB	ILE B 111	-10.085	83.770	33.575	1.00	18.70	B	C
ATOM	2869	CG2	ILE B 111	-8.883	84.214	34.398	1.00	19.35	B	C
ATOM	2870	CG1	ILE B 111	-11.054	84.937	33.365	1.00	17.87	B	C
ATOM	2871	CD1	ILE B 111	-11.768	85.374	34.632	1.00	13.74	B	C
ATOM	2872	C	ILE B 111	-8.618	82.096	32.439	1.00	20.50	B	C
ATOM	2873	O	ILE B 111	-8.983	81.017	32.900	1.00	21.37	B	O
ATOM	2874	N	LEU B 112	-7.358	82.354	32.107	1.00	19.57	B	N
ATOM	2875	CA	LEU B 112	-6.302	81.367	32.285	1.00	18.55	B	C
ATOM	2876	CB	LEU B 112	-5.538	81.154	30.975	1.00	17.95	B	C
ATOM	2877	CG	LEU B 112	-4.340	80.200	31.024	1.00	18.08	B	C
ATOM	2878	CD1	LEU B 112	-4.774	78.812	31.482	1.00	19.26	B	C
ATOM	2879	CD2	LEU B 112	-3.713	80.132	29.640	1.00	16.52	B	C
ATOM	2880	C	LEU B 112	-5.329	81.799	33.370	1.00	18.08	B	C
ATOM	2881	O	LEU B 112	-4.731	82.873	33.291	1.00	19.20	B	O
ATOM	2882	N	VAL B 113	-5.171	80.951	34.380	1.00	16.92	B	N
ATOM	2883	CA	VAL B 113	-4.269	81.231	35.487	1.00	16.68	B	C
ATOM	2884	CB	VAL B 113	-4.863	80.728	36.835	1.00	17.69	B	C
ATOM	2885	CG1	VAL B 113	-3.945	81.110	37.994	1.00	17.55	B	C
ATOM	2886	CG2	VAL B 113	-6.244	81.309	37.050	1.00	17.01	B	C
ATOM	2887	C	VAL B 113	-2.943	80.516	35.243	1.00	16.02	B	C
ATOM	2888	O	VAL B 113	-2.921	79.308	34.999	1.00	14.64	B	O
ATOM	2889	N	LEU B 114	-1.845	81.267	35.291	1.00	14.63	B	N
ATOM	2890	CA	LEU B 114	-0.520	80.692	35.104	1.00	13.92	B	C
ATOM	2891	CB	LEU B 114	0.247	81.395	33.979	1.00	11.65	B	C
ATOM	2892	CG	LEU B 114	-0.330	81.466	32.566	1.00	17.67	B	C
ATOM	2893	CD1	LEU B 114	0.736	82.064	31.644	1.00	16.72	B	C
ATOM	2894	CD2	LEU B 114	-0.738	80.081	32.077	1.00	17.71	B	C
ATOM	2895	C	LEU B 114	0.256	80.881	36.399	1.00	14.25	B	C
ATOM	2896	O	LEU B 114	0.210	81.947	37.005	1.00	11.47	B	O
ATOM	2897	N	GLY B 115	0.984	79.855	36.813	1.00	14.70	B	N
ATOM	2898	CA	GLY B 115	1.757	79.971	38.037	1.00	15.73	B	C
ATOM	2899	C	GLY B 115	2.608	78.746	38.289	1.00	14.74	B	C
ATOM	2900	O	GLY B 115	2.693	77.855	37.451	1.00	13.78	B	O
ATOM	2901	N	THR B 116	3.252	78.706	39.447	1.00	16.02	B	N
ATOM	2902	CA	THR B 116	4.087	77.568	39.798	1.00	15.11	B	C
ATOM	2903	CB	THR B 116	4.916	77.860	41.045	1.00	14.07	B	C
ATOM	2904	OG1	THR B 116	4.040	78.104	42.155	1.00	12.96	B	O
ATOM	2905	CG2	THR B 116	5.800	79.074	40.814	1.00	13.81	B	C
ATOM	2906	C	THR B 116	3.182	76.375	40.083	1.00	15.15	B	C
ATOM	2907	O	THR B 116	1.974	76.528	40.260	1.00	15.43	B	O
ATOM	2908	N	LYS B 117	3.768	75.189	40.124	1.00	14.92	B	N
ATOM	2909	CA	LYS B 117	2.998	73.991	40.401	1.00	16.68	B	C
ATOM	2910	CB	LYS B 117	3.926	72.776	40.462	1.00	18.20	B	C

Figure 4ZZ

ATOM	2911	CG	LYS	B	117	3.170	71.459	40.516	1.00	28.15	B	C
ATOM	2912	CD	LYS	B	117	2.286	71.334	39.280	1.00	34.68	B	C
ATOM	2913	CE	LYS	B	117	1.422	70.089	39.310	1.00	37.95	B	C
ATOM	2914	NZ	LYS	B	117	0.628	69.995	38.057	1.00	40.68	B	N
ATOM	2915	C	LYS	B	117	2.231	74.125	41.725	1.00	15.54	B	C
ATOM	2916	O	LYS	B	117	1.055	73.772	41.811	1.00	13.25	B	O
ATOM	2917	N	ALA	B	118	2.896	74.648	42.753	1.00	13.55	B	N
ATOM	2918	CA	ALA	B	118	2.263	74.797	44.062	1.00	13.07	B	C
ATOM	2919	CB	ALA	B	118	3.294	75.271	45.092	1.00	13.77	B	C
ATOM	2920	C	ALA	B	118	1.084	75.755	44.020	1.00	13.96	B	C
ATOM	2921	O	ALA	B	118	0.022	75.478	44.584	1.00	12.32	B	O
ATOM	2922	N	THR	B	119	1.270	76.887	43.347	1.00	12.40	B	N
ATOM	2923	CA	THR	B	119	0.204	77.874	43.248	1.00	14.50	B	C
ATOM	2924	CB	THR	B	119	0.698	79.159	42.534	1.00	11.89	B	C
ATOM	2925	OG1	THR	B	119	1.739	79.763	43.311	1.00	13.56	B	O
ATOM	2926	CG2	THR	B	119	-0.443	80.158	42.373	1.00	12.19	B	C
ATOM	2927	C	THR	B	119	-1.005	77.312	42.504	1.00	12.61	B	C
ATOM	2928	O	THR	B	119	-2.140	77.473	42.942	1.00	15.20	B	O
ATOM	2929	N	ILE	B	120	-0.759	76.641	41.385	1.00	13.07	B	N
ATOM	2930	CA	ILE	B	120	-1.847	76.080	40.594	1.00	17.11	B	C
ATOM	2931	CB	ILE	B	120	-1.333	75.521	39.242	1.00	15.75	B	C
ATOM	2932	CG2	ILE	B	120	-2.499	74.993	38.418	1.00	19.67	B	C
ATOM	2933	CG1	ILE	B	120	-0.600	76.620	38.461	1.00	15.38	B	C
ATOM	2934	CD1	ILE	B	120	-1.456	77.829	38.120	1.00	19.05	B	C
ATOM	2935	C	ILE	B	120	-2.605	74.971	41.331	1.00	17.21	B	C
ATOM	2936	O	ILE	B	120	-3.832	74.938	41.309	1.00	18.55	B	O
ATOM	2937	N	GLN	B	121	-1.887	74.064	41.984	1.00	17.85	B	N
ATOM	2938	CA	GLN	B	121	-2.554	72.983	42.700	1.00	21.02	B	C
ATOM	2939	CB	GLN	B	121	-1.539	71.946	43.177	1.00	23.26	B	C
ATOM	2940	CG	GLN	B	121	-0.796	71.267	42.053	1.00	31.27	B	C
ATOM	2941	CD	GLN	B	121	-0.046	70.038	42.509	1.00	34.42	B	C
ATOM	2942	OE1	GLN	B	121	0.702	70.078	43.488	1.00	38.77	B	O
ATOM	2943	NE2	GLN	B	121	-0.237	68.933	41.797	1.00	36.80	B	N
ATOM	2944	C	GLN	B	121	-3.375	73.477	43.894	1.00	21.84	B	C
ATOM	2945	O	GLN	B	121	-4.297	72.795	44.345	1.00	23.51	B	O
ATOM	2946	N	SER	B	122	-3.056	74.661	44.404	1.00	20.44	B	N
ATOM	2947	CA	SER	B	122	-3.791	75.193	45.549	1.00	20.89	B	C
ATOM	2948	CB	SER	B	122	-3.024	76.348	46.208	1.00	20.03	B	C
ATOM	2949	OG	SER	B	122	-3.115	77.537	45.438	1.00	19.77	B	O
ATOM	2950	C	SER	B	122	-5.178	75.687	45.152	1.00	19.13	B	C
ATOM	2951	O	SER	B	122	-6.057	75.812	46.000	1.00	18.67	B	O
ATOM	2952	N	ASN	B	123	-5.362	75.960	43.864	1.00	20.34	B	N
ATOM	2953	CA	ASN	B	123	-6.626	76.476	43.345	1.00	21.65	B	C
ATOM	2954	CB	ASN	B	123	-7.756	75.464	43.543	1.00	24.19	B	C
ATOM	2955	CG	ASN	B	123	-7.662	74.302	42.583	1.00	28.22	B	C
ATOM	2956	OD1	ASN	B	123	-7.618	74.492	41.368	1.00	28.03	B	O
ATOM	2957	ND2	ASN	B	123	-7.632	73.087	43.121	1.00	31.95	B	N
ATOM	2958	C	ASN	B	123	-6.990	77.787	44.025	1.00	20.93	B	C
ATOM	2959	O	ASN	B	123	-8.162	78.160	44.098	1.00	20.81	B	O
ATOM	2960	N	ALA	B	124	-5.977	78.488	44.520	1.00	18.37	B	N
ATOM	2961	CA	ALA	B	124	-6.205	79.759	45.187	1.00	19.77	B	C
ATOM	2962	CB	ALA	B	124	-4.872	80.387	45.588	1.00	18.94	B	C
ATOM	2963	C	ALA	B	124	-6.993	80.715	44.285	1.00	18.40	B	C
ATOM	2964	O	ALA	B	124	-8.032	81.239	44.685	1.00	20.72	B	O
ATOM	2965	N	TYR	B	125	-6.506	80.936	43.069	1.00	19.24	B	N
ATOM	2966	CA	TYR	B	125	-7.184	81.841	42.142	1.00	19.32	B	C
ATOM	2967	CB	TYR	B	125	-6.331	82.091	40.892	1.00	19.37	B	C
ATOM	2968	CG	TYR	B	125	-5.129	82.989	41.102	1.00	19.31	B	C

Figure 4AAA

ATOM	2969	CD1 TYR B 125	-3.887	82.457	41.439	1.00	17.61	B	C
ATOM	2970	CE1 TYR B 125	-2.768	83.280	41.591	1.00	18.62	B	C
ATOM	2971	CD2 TYR B 125	-5.228	84.371	40.929	1.00	17.15	B	C
ATOM	2972	CE2 TYR B 125	-4.123	85.197	41.078	1.00	16.64	B	C
ATOM	2973	CZ TYR B 125	-2.895	84.646	41.405	1.00	17.43	B	C
ATOM	2974	OH TYR B 125	-1.792	85.454	41.520	1.00	17.10	B	O
ATOM	2975	C TYR B 125	-8.553	81.340	41.696	1.00	19.25	B	C
ATOM	2976	O TYR B 125	-9.528	82.096	41.688	1.00	18.74	B	O
ATOM	2977	N ASP B 126	-8.617	80.071	41.310	1.00	18.47	B	N
ATOM	2978	CA ASP B 126	-9.862	79.473	40.841	1.00	19.68	B	C
ATOM	2979	CB ASP B 126	-9.660	77.986	40.552	1.00	19.72	B	C
ATOM	2980	CG ASP B 126	-8.455	77.720	39.671	1.00	23.51	B	C
ATOM	2981	OD1 ASP B 126	-7.341	78.138	40.042	1.00	24.96	B	O
ATOM	2982	OD2 ASP B 126	-8.621	77.085	38.609	1.00	22.93	B	O
ATOM	2983	C ASP B 126	-10.972	79.635	41.868	1.00	21.84	B	C
ATOM	2984	O ASP B 126	-12.076	80.077	41.541	1.00	18.17	B	O
ATOM	2985	N ASN B 127	-10.676	79.273	43.113	1.00	21.58	B	N
ATOM	2986	CA ASN B 127	-11.659	79.376	44.181	1.00	22.68	B	C
ATOM	2987	CB ASN B 127	-11.081	78.839	45.495	1.00	22.98	B	C
ATOM	2988	CG ASN B 127	-10.656	77.385	45.393	1.00	26.68	B	C
ATOM	2989	OD1 ASN B 127	-11.290	76.591	44.701	1.00	26.92	B	O
ATOM	2990	ND2 ASN B 127	-9.582	77.029	46.092	1.00	29.75	B	N
ATOM	2991	C ASN B 127	-12.105	80.821	44.362	1.00	22.20	B	C
ATOM	2992	O ASN B 127	-13.300	81.104	44.443	1.00	22.96	B	O
ATOM	2993	N ALA B 128	-11.145	81.736	44.422	1.00	21.77	B	N
ATOM	2994	CA ALA B 128	-11.465	83.149	44.587	1.00	22.81	B	C
ATOM	2995	CB ALA B 128	-10.184	83.970	44.693	1.00	24.04	B	C
ATOM	2996	C ALA B 128	-12.315	83.643	43.422	1.00	24.10	B	C
ATOM	2997	O ALA B 128	-13.302	84.354	43.624	1.00	27.04	B	O
ATOM	2998	N LEU B 129	-11.935	83.262	42.205	1.00	24.54	B	N
ATOM	2999	CA LEU B 129	-12.672	83.664	41.012	1.00	24.58	B	C
ATOM	3000	CB LEU B 129	-11.926	83.225	39.753	1.00	22.03	B	C
ATOM	3001	CG LEU B 129	-10.633	83.975	39.418	1.00	24.03	B	C
ATOM	3002	CD1 LEU B 129	-9.865	83.210	38.366	1.00	22.36	B	C
ATOM	3003	CD2 LEU B 129	-10.956	85.382	38.932	1.00	22.58	B	C
ATOM	3004	C LEU B 129	-14.078	83.070	41.005	1.00	26.08	B	C
ATOM	3005	O LEU B 129	-15.046	83.751	40.669	1.00	26.16	B	O
ATOM	3006	N LYS B 130	-14.185	81.795	41.365	1.00	26.80	B	N
ATOM	3007	CA LYS B 130	-15.482	81.130	41.404	1.00	29.37	B	C
ATOM	3008	CB LYS B 130	-15.326	79.694	41.904	1.00	32.59	B	C
ATOM	3009	CG LYS B 130	-16.638	78.939	42.019	1.00	37.42	B	C
ATOM	3010	CD LYS B 130	-17.337	78.877	40.675	1.00	43.42	B	C
ATOM	3011	CE LYS B 130	-18.708	78.237	40.775	1.00	45.02	B	C
ATOM	3012	NZ LYS B 130	-19.379	78.220	39.444	1.00	49.29	B	N
ATOM	3013	C LYS B 130	-16.400	81.897	42.347	1.00	29.56	B	C
ATOM	3014	O LYS B 130	-17.538	82.218	42.010	1.00	28.29	B	O
ATOM	3015	N GLN B 131	-15.876	82.185	43.532	1.00	29.31	B	N
ATOM	3016	CA GLN B 131	-16.599	82.911	44.559	1.00	31.88	B	C
ATOM	3017	CB GLN B 131	-15.667	83.162	45.747	1.00	35.97	B	C
ATOM	3018	CG GLN B 131	-16.286	83.913	46.918	1.00	45.23	B	C
ATOM	3019	CD GLN B 131	-17.385	83.128	47.610	1.00	50.61	B	C
ATOM	3020	OE1 GLN B 131	-17.211	81.951	47.942	1.00	53.57	B	O
ATOM	3021	NE2 GLN B 131	-18.524	83.781	47.843	1.00	52.00	B	N
ATOM	3022	C GLN B 131	-17.137	84.239	44.035	1.00	31.40	B	C
ATOM	3023	O GLN B 131	-18.222	84.675	44.427	1.00	29.81	B	O
ATOM	3024	N GLN B 132	-16.382	84.878	43.145	1.00	29.49	B	N
ATOM	3025	CA GLN B 132	-16.788	86.166	42.597	1.00	29.13	B	C
ATOM	3026	CB GLN B 132	-15.558	87.020	42.290	1.00	30.78	B	C

Figure 4BBB

ATOM	3027	CG	GLN B 132	-14.776	87.410	43.535	1.00	32.44	B	C
ATOM	3028	CD	GLN B 132	-15.644	88.114	44.565	1.00	35.76	B	C
ATOM	3029	OE1	GLN B 132	-16.234	89.158	44.286	1.00	35.79	B	O
ATOM	3030	NE2	GLN B 132	-15.725	87.542	45.763	1.00	34.46	B	N
ATOM	3031	C	GLN B 132	-17.682	86.079	41.368	1.00	29.17	B	C
ATOM	3032	O	GLN B 132	-17.994	87.096	40.747	1.00	28.85	B	O
ATOM	3033	N	GLY B 133	-18.075	84.864	41.004	1.00	28.71	B	N
ATOM	3034	CA	GLY B 133	-18.974	84.700	39.879	1.00	28.15	B	C
ATOM	3035	C	GLY B 133	-18.442	84.343	38.509	1.00	27.61	B	C
ATOM	3036	O	GLY B 133	-19.224	84.310	37.561	1.00	26.00	B	O
ATOM	3037	N	TYR B 134	-17.146	84.078	38.371	1.00	26.83	B	N
ATOM	3038	CA	TYR B 134	-16.627	83.721	37.056	1.00	26.16	B	C
ATOM	3039	CB	TYR B 134	-15.135	84.049	36.961	1.00	24.55	B	C
ATOM	3040	CG	TYR B 134	-14.921	85.545	36.938	1.00	22.77	B	C
ATOM	3041	CD1	TYR B 134	-14.840	86.277	38.123	1.00	22.62	B	C
ATOM	3042	CE1	TYR B 134	-14.760	87.670	38.109	1.00	23.49	B	C
ATOM	3043	CD2	TYR B 134	-14.911	86.246	35.730	1.00	24.51	B	C
ATOM	3044	CE2	TYR B 134	-14.834	87.641	35.702	1.00	25.08	B	C
ATOM	3045	CZ	TYR B 134	-14.759	88.346	36.896	1.00	23.66	B	C
ATOM	3046	OH	TYR B 134	-14.689	89.721	36.886	1.00	24.39	B	O
ATOM	3047	C	TYR B 134	-16.927	82.264	36.729	1.00	26.95	B	C
ATOM	3048	O	TYR B 134	-16.774	81.379	37.571	1.00	26.50	B	O
ATOM	3049	N	LEU B 135	-17.362	82.031	35.494	1.00	25.91	B	N
ATOM	3050	CA	LEU B 135	-17.777	80.704	35.049	1.00	28.31	B	C
ATOM	3051	CB	LEU B 135	-19.155	80.822	34.388	1.00	28.49	B	C
ATOM	3052	CG	LEU B 135	-20.131	81.733	35.139	1.00	28.21	B	C
ATOM	3053	CD1	LEU B 135	-21.343	82.031	34.272	1.00	28.13	B	C
ATOM	3054	CD2	LEU B 135	-20.527	81.077	36.455	1.00	29.07	B	C
ATOM	3055	C	LEU B 135	-16.847	79.940	34.113	1.00	27.36	B	C
ATOM	3056	O	LEU B 135	-17.066	78.758	33.855	1.00	27.87	B	O
ATOM	3057	N	ASN B 136	-15.819	80.602	33.596	1.00	28.12	B	N
ATOM	3058	CA	ASN B 136	-14.892	79.944	32.681	1.00	25.99	B	C
ATOM	3059	CB	ASN B 136	-15.053	80.520	31.276	1.00	27.18	B	C
ATOM	3060	CG	ASN B 136	-14.416	79.652	30.214	1.00	27.92	B	C
ATOM	3061	OD1	ASN B 136	-13.572	78.807	30.509	1.00	28.48	B	O
ATOM	3062	ND2	ASN B 136	-14.809	79.866	28.962	1.00	30.11	B	N
ATOM	3063	C	ASN B 136	-13.460	80.159	33.172	1.00	26.03	B	C
ATOM	3064	O	ASN B 136	-12.749	81.040	32.688	1.00	24.61	B	O
ATOM	3065	N	ILE B 137	-13.046	79.342	34.133	1.00	24.40	B	N
ATOM	3066	CA	ILE B 137	-11.715	79.451	34.716	1.00	24.19	B	C
ATOM	3067	CB	ILE B 137	-11.816	79.575	36.254	1.00	25.00	B	C
ATOM	3068	CG2	ILE B 137	-10.430	79.802	36.857	1.00	26.36	B	C
ATOM	3069	CG1	ILE B 137	-12.752	80.735	36.616	1.00	25.12	B	C
ATOM	3070	CD1	ILE B 137	-13.231	80.738	38.056	1.00	25.56	B	C
ATOM	3071	C	ILE B 137	-10.809	78.268	34.378	1.00	24.30	B	C
ATOM	3072	O	ILE B 137	-11.180	77.114	34.574	1.00	24.24	B	O
ATOM	3073	N	SER B 138	-9.620	78.570	33.865	1.00	22.99	B	N
ATOM	3074	CA	SER B 138	-8.640	77.545	33.520	1.00	23.07	B	C
ATOM	3075	CB	SER B 138	-8.357	77.547	32.016	1.00	21.90	B	C
ATOM	3076	OG	SER B 138	-9.532	77.297	31.271	1.00	28.80	B	O
ATOM	3077	C	SER B 138	-7.345	77.845	34.267	1.00	21.12	B	C
ATOM	3078	O	SER B 138	-7.104	78.986	34.675	1.00	18.88	B	O
ATOM	3079	N	HIS B 139	-6.521	76.820	34.463	1.00	20.44	B	N
ATOM	3080	CA	HIS B 139	-5.242	77.010	35.134	1.00	20.66	B	C
ATOM	3081	CB	HIS B 139	-5.343	76.712	36.639	1.00	20.23	B	C
ATOM	3082	CG	HIS B 139	-5.802	75.322	36.964	1.00	21.50	B	C
ATOM	3083	CD2	HIS B 139	-5.241	74.114	36.716	1.00	22.63	B	C
ATOM	3084	ND1	HIS B 139	-6.984	75.067	37.626	1.00	20.86	B	N

Figure 4CCC

ATOM	3085	CE1 HIS B 139	-7.132	73.761	37.770	1.00	23.65	B	C
ATOM	3086	NE2 HIS B 139	-6.089	73.161	37.226	1.00	23.23	B	N
ATOM	3087	C HIS B 139	-4.172	76.148	34.488	1.00	21.34	B	C
ATOM	3088	O HIS B 139	-4.468	75.120	33.874	1.00	21.81	B	O
ATOM	3089	N LEU B 140	-2.922	76.578	34.614	1.00	21.36	B	N
ATOM	3090	CA LEU B 140	-1.815	75.846	34.023	1.00	20.20	B	C
ATOM	3091	CB LEU B 140	-1.644	76.244	32.558	1.00	21.19	B	C
ATOM	3092	CG LEU B 140	-0.502	75.564	31.800	1.00	21.50	B	C
ATOM	3093	CD1 LEU B 140	-0.790	74.074	31.688	1.00	21.95	B	C
ATOM	3094	CD2 LEU B 140	-0.357	76.190	30.410	1.00	21.96	B	C
ATOM	3095	C LEU B 140	-0.511	76.104	34.758	1.00	19.11	B	C
ATOM	3096	O LEU B 140	-0.098	77.248	34.928	1.00	16.59	B	O
ATOM	3097	N ALA B 141	0.135	75.027	35.186	1.00	19.36	B	N
ATOM	3098	CA ALA B 141	1.405	75.133	35.887	1.00	19.87	B	C
ATOM	3099	CB ALA B 141	1.603	73.918	36.791	1.00	21.48	B	C
ATOM	3100	C ALA B 141	2.531	75.215	34.856	1.00	16.62	B	C
ATOM	3101	O ALA B 141	2.912	74.214	34.261	1.00	20.61	B	O
ATOM	3102	N THR B 142	3.049	76.415	34.630	1.00	15.84	B	N
ATOM	3103	CA THR B 142	4.132	76.600	33.676	1.00	14.20	B	C
ATOM	3104	CB THR B 142	3.948	77.913	32.889	1.00	13.97	B	C
ATOM	3105	OG1 THR B 142	3.814	79.003	33.806	1.00	14.25	B	O
ATOM	3106	CG2 THR B 142	2.691	77.840	32.023	1.00	13.62	B	C
ATOM	3107	C THR B 142	5.410	76.652	34.505	1.00	14.37	B	C
ATOM	3108	O THR B 142	6.114	77.653	34.529	1.00	13.97	B	O
ATOM	3109	N SER B 143	5.698	75.544	35.176	1.00	15.59	B	N
ATOM	3110	CA SER B 143	6.844	75.444	36.067	1.00	16.89	B	C
ATOM	3111	CB SER B 143	6.971	74.013	36.591	1.00	19.31	B	C
ATOM	3112	OG SER B 143	8.003	73.931	37.564	1.00	27.09	B	O
ATOM	3113	C SER B 143	8.193	75.902	35.537	1.00	16.21	B	C
ATOM	3114	O SER B 143	8.892	76.666	36.205	1.00	16.07	B	O
ATOM	3115	N LEU B 144	8.557	75.446	34.345	1.00	15.08	B	N
ATOM	3116	CA LEU B 144	9.850	75.783	33.759	1.00	15.48	B	C
ATOM	3117	CB LEU B 144	10.094	74.929	32.520	1.00	15.32	B	C
ATOM	3118	CG LEU B 144	10.215	73.436	32.827	1.00	16.70	B	C
ATOM	3119	CD1 LEU B 144	10.267	72.642	31.536	1.00	19.80	B	C
ATOM	3120	CD2 LEU B 144	11.468	73.190	33.654	1.00	19.07	B	C
ATOM	3121	C LEU B 144	10.037	77.251	33.421	1.00	14.68	B	C
ATOM	3122	O LEU B 144	11.145	77.678	33.098	1.00	14.35	B	O
ATOM	3123	N PHE B 145	8.962	78.028	33.484	1.00	14.12	B	N
ATOM	3124	CA PHE B 145	9.088	79.447	33.199	1.00	15.35	B	C
ATOM	3125	CB PHE B 145	7.719	80.148	33.232	1.00	13.56	B	C
ATOM	3126	CG PHE B 145	6.911	79.992	31.964	1.00	14.58	B	C
ATOM	3127	CD1 PHE B 145	5.657	80.594	31.852	1.00	13.83	B	C
ATOM	3128	CD2 PHE B 145	7.393	79.252	30.888	1.00	16.08	B	C
ATOM	3129	CE1 PHE B 145	4.899	80.461	30.688	1.00	14.15	B	C
ATOM	3130	CE2 PHE B 145	6.646	79.111	29.720	1.00	15.95	B	C
ATOM	3131	CZ PHE B 145	5.395	79.717	29.620	1.00	14.39	B	C
ATOM	3132	C PHE B 145	10.011	80.084	34.233	1.00	14.15	B	C
ATOM	3133	O PHE B 145	10.821	80.942	33.896	1.00	13.84	B	O
ATOM	3134	N VAL B 146	9.901	79.648	35.488	1.00	14.43	B	N
ATOM	3135	CA VAL B 146	10.721	80.215	36.558	1.00	15.36	B	C
ATOM	3136	CB VAL B 146	10.353	79.617	37.949	1.00	17.29	B	C
ATOM	3137	CG1 VAL B 146	11.367	80.065	38.995	1.00	16.50	B	C
ATOM	3138	CG2 VAL B 146	8.959	80.079	38.369	1.00	14.60	B	C
ATOM	3139	C VAL B 146	12.229	80.086	36.329	1.00	14.39	B	C
ATOM	3140	O VAL B 146	12.935	81.092	36.326	1.00	14.20	B	O
ATOM	3141	N PRO B 147	12.747	78.856	36.144	1.00	14.14	B	N
ATOM	3142	CD PRO B 147	12.141	77.519	36.269	1.00	13.43	B	C

Figure 4DDD

ATOM	3143	CA	PRO B 147	14.195	78.754	35.921	1.00	14.59	B	C
ATOM	3144	CB	PRO B 147	14.457	77.242	35.995	1.00	13.53	B	C
ATOM	3145	CG	PRO B 147	13.151	76.642	35.573	1.00	14.07	B	C
ATOM	3146	C	PRO B 147	14.653	79.377	34.597	1.00	13.40	B	C
ATOM	3147	O	PRO B 147	15.775	79.877	34.500	1.00	13.19	B	O
ATOM	3148	N	LEU B 148	13.796	79.355	33.577	1.00	11.38	B	N
ATOM	3149	CA	LEU B 148	14.179	79.960	32.303	1.00	12.63	B	C
ATOM	3150	CB	LEU B 148	13.100	79.751	31.232	1.00	14.70	B	C
ATOM	3151	CG	LEU B 148	13.404	78.655	30.202	1.00	12.09	B	C
ATOM	3152	CD1	LEU B 148	13.446	77.315	30.903	1.00	14.46	B	C
ATOM	3153	CD2	LEU B 148	12.341	78.649	29.106	1.00	18.20	B	C
ATOM	3154	C	LEU B 148	14.395	81.448	32.508	1.00	12.91	B	C
ATOM	3155	O	LEU B 148	15.372	82.018	32.031	1.00	12.96	B	O
ATOM	3156	N	ILE B 149	13.471	82.070	33.231	1.00	13.00	B	N
ATOM	3157	CA	ILE B 149	13.545	83.500	33.499	1.00	12.87	B	C
ATOM	3158	CB	ILE B 149	12.211	83.989	34.130	1.00	13.86	B	C
ATOM	3159	CG2	ILE B 149	12.352	85.419	34.647	1.00	12.28	B	C
ATOM	3160	CG1	ILE B 149	11.099	83.891	33.071	1.00	14.05	B	C
ATOM	3161	CD1	ILE B 149	9.694	84.067	33.608	1.00	15.21	B	C
ATOM	3162	C	ILE B 149	14.742	83.842	34.386	1.00	12.66	B	C
ATOM	3163	O	ILE B 149	15.403	84.852	34.172	1.00	11.51	B	O
ATOM	3164	N	GLU B 150	15.041	82.995	35.366	1.00	12.92	B	N
ATOM	3165	CA	GLU B 150	16.180	83.266	36.235	1.00	13.66	B	C
ATOM	3166	CB	GLU B 150	16.182	82.313	37.441	1.00	18.92	B	C
ATOM	3167	CG	GLU B 150	14.884	82.371	38.242	1.00	23.46	B	C
ATOM	3168	CD	GLU B 150	15.024	81.875	39.673	1.00	28.25	B	C
ATOM	3169	OE1	GLU B 150	15.728	80.863	39.887	1.00	30.76	B	O
ATOM	3170	OE2	GLU B 150	14.414	82.491	40.581	1.00	24.21	B	O
ATOM	3171	C	GLU B 150	17.491	83.163	35.462	1.00	13.99	B	C
ATOM	3172	O	GLU B 150	18.484	83.776	35.844	1.00	14.58	B	O
ATOM	3173	N	GLU B 151	17.500	82.403	34.370	1.00	13.36	B	N
ATOM	3174	CA	GLU B 151	18.712	82.277	33.571	1.00	16.12	B	C
ATOM	3175	CB	GLU B 151	18.863	80.861	33.006	1.00	18.99	B	C
ATOM	3176	CG	GLU B 151	20.276	80.598	32.500	1.00	25.66	B	C
ATOM	3177	CD	GLU B 151	20.615	79.128	32.403	1.00	27.80	B	C
ATOM	3178	OE1	GLU B 151	20.307	78.389	33.362	1.00	33.36	B	O
ATOM	3179	OE2	GLU B 151	21.204	78.716	31.378	1.00	24.62	B	O
ATOM	3180	C	GLU B 151	18.695	83.293	32.436	1.00	15.49	B	C
ATOM	3181	O	GLU B 151	19.515	83.243	31.522	1.00	16.76	B	O
ATOM	3182	N	SER B 152	17.746	84.218	32.514	1.00	15.83	B	N
ATOM	3183	CA	SER B 152	17.591	85.277	31.523	1.00	16.90	B	C
ATOM	3184	CB	SER B 152	18.843	86.159	31.486	1.00	16.89	B	C
ATOM	3185	OG	SER B 152	18.547	87.404	30.872	1.00	19.93	B	O
ATOM	3186	C	SER B 152	17.274	84.786	30.108	1.00	15.72	B	C
ATOM	3187	O	SER B 152	17.776	85.339	29.128	1.00	16.57	B	O
ATOM	3188	N	ILE B 153	16.452	83.746	30.003	1.00	16.59	B	N
ATOM	3189	CA	ILE B 153	16.048	83.223	28.701	1.00	16.23	B	C
ATOM	3190	CB	ILE B 153	15.840	81.688	28.747	1.00	17.80	B	C
ATOM	3191	CG2	ILE B 153	15.479	81.164	27.366	1.00	16.97	B	C
ATOM	3192	CG1	ILE B 153	17.118	81.008	29.247	1.00	18.17	B	C
ATOM	3193	CD1	ILE B 153	18.328	81.264	28.379	1.00	20.45	B	C
ATOM	3194	C	ILE B 153	14.716	83.924	28.465	1.00	17.00	B	C
ATOM	3195	O	ILE B 153	13.647	83.337	28.649	1.00	16.86	B	O
ATOM	3196	N	LEU B 154	14.802	85.192	28.074	1.00	16.13	B	N
ATOM	3197	CA	LEU B 154	13.629	86.036	27.861	1.00	17.93	B	C
ATOM	3198	CB	LEU B 154	13.891	87.412	28.475	1.00	15.30	B	C
ATOM	3199	CG	LEU B 154	14.390	87.335	29.923	1.00	14.99	B	C
ATOM	3200	CD1	LEU B 154	14.685	88.728	30.459	1.00	17.09	B	C

Figure 4EEE

ATOM	3201	CD2 LEU B 154	13.348	86.640	30.776	1.00	18.19	B	C
ATOM	3202	C LEU B 154	13.188	86.204	26.413	1.00	19.02	B	C
ATOM	3203	O LEU B 154	12.258	86.956	26.125	1.00	18.98	B	O
ATOM	3204	N GLU B 155	13.857	85.506	25.506	1.00	19.46	B	N
ATOM	3205	CA GLU B 155	13.520	85.579	24.093	1.00	20.61	B	C
ATOM	3206	CB GLU B 155	14.055	86.877	23.481	1.00	23.20	B	C
ATOM	3207	CG GLU B 155	15.563	86.894	23.285	1.00	31.50	B	C
ATOM	3208	CD GLU B 155	16.077	88.235	22.778	1.00	39.23	B	C
ATOM	3209	OE1 GLU B 155	15.483	88.786	21.824	1.00	42.91	B	O
ATOM	3210	OE2 GLU B 155	17.084	88.734	23.328	1.00	43.36	B	O
ATOM	3211	C GLU B 155	14.177	84.391	23.421	1.00	19.99	B	C
ATOM	3212	O GLU B 155	14.864	83.610	24.077	1.00	21.64	B	O
ATOM	3213	N GLY B 156	13.946	84.242	22.121	1.00	20.12	B	N
ATOM	3214	CA GLY B 156	14.563	83.152	21.396	1.00	19.17	B	C
ATOM	3215	C GLY B 156	13.844	81.820	21.366	1.00	20.79	B	C
ATOM	3216	O GLY B 156	12.804	81.618	21.995	1.00	18.13	B	O
ATOM	3217	N GLU B 157	14.451	80.898	20.626	1.00	22.19	B	N
ATOM	3218	CA GLU B 157	13.946	79.548	20.415	1.00	21.56	B	C
ATOM	3219	CB GLU B 157	14.952	78.782	19.553	1.00	25.02	B	C
ATOM	3220	CG GLU B 157	14.524	77.377	19.184	1.00	35.87	B	C
ATOM	3221	CD GLU B 157	15.499	76.703	18.231	1.00	41.09	B	C
ATOM	3222	OE1 GLU B 157	16.701	76.596	18.573	1.00	42.82	B	O
ATOM	3223	OE2 GLU B 157	15.058	76.275	17.141	1.00	42.70	B	O
ATOM	3224	C GLU B 157	13.613	78.732	21.666	1.00	20.08	B	C
ATOM	3225	O GLU B 157	12.588	78.044	21.702	1.00	18.27	B	O
ATOM	3226	N LEU B 158	14.471	78.796	22.683	1.00	17.09	B	N
ATOM	3227	CA LEU B 158	14.238	78.033	23.904	1.00	15.87	B	C
ATOM	3228	CB LEU B 158	15.447	78.132	24.842	1.00	18.05	B	C
ATOM	3229	CG LEU B 158	15.334	77.315	26.136	1.00	17.16	B	C
ATOM	3230	CD1 LEU B 158	14.977	75.872	25.807	1.00	15.66	B	C
ATOM	3231	CD2 LEU B 158	16.651	77.382	26.905	1.00	17.03	B	C
ATOM	3232	C LEU B 158	12.973	78.488	24.630	1.00	16.52	B	C
ATOM	3233	O LEU B 158	12.189	77.662	25.108	1.00	14.49	B	O
ATOM	3234	N LEU B 159	12.775	79.799	24.727	1.00	14.92	B	N
ATOM	3235	CA LEU B 159	11.580	80.306	25.383	1.00	14.51	B	C
ATOM	3236	CB LEU B 159	11.660	81.823	25.578	1.00	15.13	B	C
ATOM	3237	CG LEU B 159	10.374	82.456	26.133	1.00	16.38	B	C
ATOM	3238	CD1 LEU B 159	9.996	81.799	27.450	1.00	14.88	B	C
ATOM	3239	CD2 LEU B 159	10.574	83.955	26.326	1.00	15.09	B	C
ATOM	3240	C LEU B 159	10.367	79.951	24.519	1.00	14.59	B	C
ATOM	3241	O LEU B 159	9.350	79.492	25.028	1.00	13.56	B	O
ATOM	3242	N GLU B 160	10.483	80.150	23.209	1.00	14.14	B	N
ATOM	3243	CA GLU B 160	9.382	79.820	22.304	1.00	16.06	B	C
ATOM	3244	CB GLU B 160	9.779	80.107	20.853	1.00	18.15	B	C
ATOM	3245	CG GLU B 160	8.709	79.743	19.815	1.00	23.84	B	C
ATOM	3246	CD GLU B 160	7.357	80.384	20.107	1.00	27.35	B	C
ATOM	3247	OE1 GLU B 160	7.330	81.496	20.683	1.00	24.13	B	O
ATOM	3248	OE2 GLU B 160	6.321	79.783	19.748	1.00	30.37	B	O
ATOM	3249	C GLU B 160	8.987	78.348	22.438	1.00	15.10	B	C
ATOM	3250	O GLU B 160	7.811	78.015	22.566	1.00	16.67	B	O
ATOM	3251	N THR B 161	9.979	77.469	22.416	1.00	15.36	B	N
ATOM	3252	CA THR B 161	9.720	76.037	22.518	1.00	16.10	B	C
ATOM	3253	CB THR B 161	11.024	75.243	22.343	1.00	17.81	B	C
ATOM	3254	OG1 THR B 161	11.607	75.567	21.072	1.00	19.62	B	O
ATOM	3255	CG2 THR B 161	10.756	73.748	22.407	1.00	18.12	B	C
ATOM	3256	C THR B 161	9.066	75.676	23.851	1.00	14.89	B	C
ATOM	3257	O THR B 161	8.172	74.821	23.907	1.00	13.07	B	O
ATOM	3258	N CYS B 162	9.500	76.342	24.918	1.00	12.65	B	N

Figure 4FFF

ATOM	3259	CA	CYS B 162	8.958	76.087	26.248	1.00	15.38	B	C
ATOM	3260	CB	CYS B 162	9.800	76.796	27.310	1.00	14.79	B	C
ATOM	3261	SG	CYS B 162	9.400	76.328	29.021	1.00	16.89	B	S
ATOM	3262	C	CYS B 162	7.505	76.557	26.341	1.00	15.60	B	C
ATOM	3263	O	CYS B 162	6.651	75.849	26.877	1.00	15.21	B	O
ATOM	3264	N	MET B 163	7.226	77.756	25.831	1.00	15.17	B	N
ATOM	3265	CA	MET B 163	5.863	78.271	25.860	1.00	15.78	B	C
ATOM	3266	CB	MET B 163	5.792	79.695	25.294	1.00	15.75	B	C
ATOM	3267	CG	MET B 163	6.424	80.767	26.162	1.00	16.77	B	C
ATOM	3268	SD	MET B 163	5.978	82.432	25.603	1.00	16.61	B	S
ATOM	3269	CE	MET B 163	6.937	82.509	24.114	1.00	14.38	B	C
ATOM	3270	C	MET B 163	4.962	77.360	25.033	1.00	14.99	B	C
ATOM	3271	O	MET B 163	3.819	77.093	25.410	1.00	15.77	B	O
ATOM	3272	N	HIS B 164	5.484	76.879	23.909	1.00	15.34	B	N
ATOM	3273	CA	HIS B 164	4.718	76.002	23.033	1.00	19.25	B	C
ATOM	3274	CB	HIS B 164	5.504	75.724	21.751	1.00	20.62	B	C
ATOM	3275	CG	HIS B 164	4.693	75.055	20.688	1.00	28.25	B	C
ATOM	3276	CD2	HIS B 164	4.779	73.817	20.146	1.00	28.01	B	C
ATOM	3277	ND1	HIS B 164	3.608	75.661	20.090	1.00	29.20	B	N
ATOM	3278	CE1	HIS B 164	3.060	74.824	19.227	1.00	29.23	B	C
ATOM	3279	NE2	HIS B 164	3.750	73.698	19.243	1.00	29.55	B	N
ATOM	3280	C	HIS B 164	4.412	74.690	23.760	1.00	19.47	B	C
ATOM	3281	O	HIS B 164	3.293	74.169	23.704	1.00	17.49	B	O
ATOM	3282	N	TYR B 165	5.419	74.169	24.449	1.00	17.68	B	N
ATOM	3283	CA	TYR B 165	5.277	72.937	25.210	1.00	16.69	B	C
ATOM	3284	CB	TYR B 165	6.578	72.655	25.969	1.00	15.68	B	C
ATOM	3285	CG	TYR B 165	6.457	71.544	26.976	1.00	17.57	B	C
ATOM	3286	CD1	TYR B 165	6.384	70.211	26.569	1.00	16.95	B	C
ATOM	3287	CE1	TYR B 165	6.216	69.191	27.498	1.00	20.45	B	C
ATOM	3288	CD2	TYR B 165	6.362	71.829	28.336	1.00	15.75	B	C
ATOM	3289	CE2	TYR B 165	6.193	70.818	29.273	1.00	17.81	B	C
ATOM	3290	CZ	TYR B 165	6.119	69.501	28.847	1.00	18.80	B	C
ATOM	3291	OH	TYR B 165	5.941	68.500	29.773	1.00	19.07	B	O
ATOM	3292	C	TYR B 165	4.101	73.027	26.193	1.00	16.83	B	C
ATOM	3293	O	TYR B 165	3.303	72.094	26.310	1.00	19.76	B	O
ATOM	3294	N	TYR B 166	3.999	74.151	26.895	1.00	16.40	B	N
ATOM	3295	CA	TYR B 166	2.931	74.369	27.864	1.00	16.70	B	C
ATOM	3296	CB	TYR B 166	3.362	75.435	28.888	1.00	13.68	B	C
ATOM	3297	CG	TYR B 166	4.354	74.961	29.930	1.00	15.63	B	C
ATOM	3298	CD1	TYR B 166	5.545	75.650	30.150	1.00	13.48	B	C
ATOM	3299	CE1	TYR B 166	6.458	75.218	31.113	1.00	17.41	B	C
ATOM	3300	CD2	TYR B 166	4.097	73.825	30.702	1.00	16.97	B	C
ATOM	3301	CE2	TYR B 166	5.001	73.387	31.668	1.00	14.41	B	C
ATOM	3302	CZ	TYR B 166	6.176	74.084	31.868	1.00	15.99	B	C
ATOM	3303	OH	TYR B 166	7.058	73.648	32.827	1.00	15.83	B	O
ATOM	3304	C	TYR B 166	1.576	74.793	27.278	1.00	17.53	B	C
ATOM	3305	O	TYR B 166	0.529	74.344	27.746	1.00	18.77	B	O
ATOM	3306	N	PHE B 167	1.599	75.651	26.260	1.00	18.80	B	N
ATOM	3307	CA	PHE B 167	0.367	76.198	25.668	1.00	19.74	B	C
ATOM	3308	CB	PHE B 167	0.660	77.589	25.115	1.00	18.42	B	C
ATOM	3309	CG	PHE B 167	1.092	78.573	26.163	1.00	17.20	B	C
ATOM	3310	CD1	PHE B 167	1.928	79.627	25.824	1.00	16.80	B	C
ATOM	3311	CD2	PHE B 167	0.635	78.472	27.482	1.00	16.87	B	C
ATOM	3312	CE1	PHE B 167	2.306	80.572	26.770	1.00	17.05	B	C
ATOM	3313	CE2	PHE B 167	1.010	79.419	28.439	1.00	17.71	B	C
ATOM	3314	CZ	PHE B 167	1.851	80.472	28.075	1.00	17.51	B	C
ATOM	3315	C	PHE B 167	-0.367	75.383	24.618	1.00	21.10	B	C
ATOM	3316	O	PHE B 167	-1.597	75.430	24.535	1.00	19.22	B	O

Figure 4GGG

ATOM	3317	N	THR B 168	0.403	74.657	23.812	1.00	23.27	B	N
ATOM	3318	CA	THR B 168	-0.165	73.805	22.765	1.00	26.77	B	C
ATOM	3319	CB	THR B 168	0.865	72.832	22.187	1.00	27.57	B	C
ATOM	3320	OG1	THR B 168	1.911	73.535	21.517	1.00	32.03	B	O
ATOM	3321	CG2	THR B 168	0.186	71.880	21.180	1.00	32.54	B	C
ATOM	3322	C	THR B 168	-1.363	72.944	23.205	1.00	26.77	B	C
ATOM	3323	O	THR B 168	-2.395	72.938	22.572	1.00	28.26	B	O
ATOM	3324	N	PRO B 169	-1.239	72.197	24.326	1.00	26.46	B	N
ATOM	3325	CD	PRO B 169	-0.050	72.083	25.152	1.00	26.67	B	C
ATOM	3326	CA	PRO B 169	-2.291	71.326	24.883	1.00	25.55	B	C
ATOM	3327	CB	PRO B 169	-1.610	70.668	26.066	1.00	26.50	B	C
ATOM	3328	CG	PRO B 169	-0.169	70.666	25.699	1.00	26.43	B	C
ATOM	3329	C	PRO B 169	-3.593	72.077	25.297	1.00	24.82	B	C
ATOM	3330	O	PRO B 169	-4.610	71.418	25.576	1.00	24.34	B	O
ATOM	3331	N	LEU B 170	-3.536	73.405	25.391	1.00	22.80	B	N
ATOM	3332	CA	LEU B 170	-4.729	74.167	25.761	1.00	25.50	B	C
ATOM	3333	CB	LEU B 170	-4.385	75.632	25.964	1.00	23.84	B	C
ATOM	3334	CG	LEU B 170	-3.514	75.982	27.186	1.00	25.53	B	C
ATOM	3335	CD1	LEU B 170	-3.138	77.463	27.146	1.00	26.01	B	C
ATOM	3336	CD2	LEU B 170	-4.242	75.652	28.503	1.00	26.09	B	C
ATOM	3337	C	LEU B 170	-5.772	74.057	24.644	1.00	25.77	B	C
ATOM	3338	O	LEU B 170	-5.436	74.103	23.453	1.00	26.97	B	O
ATOM	3339	N	GLU B 171	-7.033	73.952	25.037	1.00	27.92	B	N
ATOM	3340	CA	GLU B 171	-8.117	73.860	24.078	1.00	30.46	B	C
ATOM	3341	CB	GLU B 171	-9.035	72.693	24.435	1.00	34.23	B	C
ATOM	3342	CG	GLU B 171	-8.408	71.310	24.268	1.00	36.53	B	C
ATOM	3343	CD	GLU B 171	-7.963	71.029	22.844	1.00	38.06	B	C
ATOM	3344	OE1	GLU B 171	-8.773	71.218	21.911	1.00	38.60	B	O
ATOM	3345	OE2	GLU B 171	-6.800	70.614	22.659	1.00	38.27	B	O
ATOM	3346	C	GLU B 171	-8.903	75.155	24.104	1.00	30.56	B	C
ATOM	3347	O	GLU B 171	-9.477	75.560	23.093	1.00	33.13	B	O
ATOM	3348	N	ILE B 172	-8.922	75.801	25.265	1.00	27.64	B	N
ATOM	3349	CA	ILE B 172	-9.627	77.060	25.428	1.00	26.46	B	C
ATOM	3350	CB	ILE B 172	-10.239	77.179	26.838	1.00	26.68	B	C
ATOM	3351	CG2	ILE B 172	-10.916	78.534	26.994	1.00	26.23	B	C
ATOM	3352	CG1	ILE B 172	-11.246	76.050	27.071	1.00	27.08	B	C
ATOM	3353	CD1	ILE B 172	-11.899	76.085	28.443	1.00	27.76	B	C
ATOM	3354	C	ILE B 172	-8.670	78.225	25.218	1.00	26.74	B	C
ATOM	3355	O	ILE B 172	-7.604	78.284	25.833	1.00	24.89	B	O
ATOM	3356	N	LEU B 173	-9.055	79.148	24.343	1.00	25.65	B	N
ATOM	3357	CA	LEU B 173	-8.245	80.328	24.061	1.00	25.77	B	C
ATOM	3358	CB	LEU B 173	-8.564	80.853	22.659	1.00	28.20	B	C
ATOM	3359	CG	LEU B 173	-7.682	81.962	22.082	1.00	29.17	B	C
ATOM	3360	CD1	LEU B 173	-6.227	81.521	22.081	1.00	31.35	B	C
ATOM	3361	CD2	LEU B 173	-8.144	82.281	20.661	1.00	29.98	B	C
ATOM	3362	C	LEU B 173	-8.585	81.387	25.111	1.00	24.69	B	C
ATOM	3363	O	LEU B 173	-9.720	81.852	25.188	1.00	26.80	B	O
ATOM	3364	N	PRO B 174	-7.606	81.780	25.939	1.00	21.86	B	N
ATOM	3365	CD	PRO B 174	-6.227	81.269	26.032	1.00	20.12	B	C
ATOM	3366	CA	PRO B 174	-7.857	82.786	26.973	1.00	21.00	B	C
ATOM	3367	CB	PRO B 174	-6.629	82.663	27.873	1.00	20.86	B	C
ATOM	3368	CG	PRO B 174	-5.553	82.313	26.900	1.00	20.88	B	C
ATOM	3369	C	PRO B 174	-8.058	84.215	26.481	1.00	21.07	B	C
ATOM	3370	O	PRO B 174	-7.442	84.652	25.510	1.00	20.92	B	O
ATOM	3371	N	GLU B 175	-8.941	84.932	27.163	1.00	20.88	B	N
ATOM	3372	CA	GLU B 175	-9.210	86.325	26.849	1.00	20.49	B	C
ATOM	3373	CB	GLU B 175	-10.714	86.599	26.886	1.00	22.18	B	C
ATOM	3374	CG	GLU B 175	-11.414	86.262	25.584	1.00	24.72	B	C

Figure 4HHH

ATOM	3375	CD	GLU	B	175	-12.914	86.445	25.662	1.00	27.87	B	C
ATOM	3376	OE1	GLU	B	175	-13.362	87.355	26.386	1.00	29.73	B	O
ATOM	3377	OE2	GLU	B	175	-13.643	85.686	24.989	1.00	30.38	B	O
ATOM	3378	C	GLU	B	175	-8.492	87.110	27.932	1.00	19.76	B	C
ATOM	3379	O	GLU	B	175	-8.151	88.278	27.760	1.00	19.06	B	O
ATOM	3380	N	VAL	B	176	-8.249	86.429	29.047	1.00	18.72	B	N
ATOM	3381	CA	VAL	B	176	-7.561	87.013	30.187	1.00	18.26	B	C
ATOM	3382	CB	VAL	B	176	-8.542	87.366	31.329	1.00	19.04	B	C
ATOM	3383	CG1	VAL	B	176	-7.792	88.005	32.473	1.00	17.96	B	C
ATOM	3384	CG2	VAL	B	176	-9.627	88.307	30.819	1.00	19.77	B	C
ATOM	3385	C	VAL	B	176	-6.566	85.994	30.728	1.00	18.77	B	C
ATOM	3386	O	VAL	B	176	-6.909	84.830	30.936	1.00	18.44	B	O
ATOM	3387	N	ILE	B	177	-5.337	86.438	30.955	1.00	15.78	B	N
ATOM	3388	CA	ILE	B	177	-4.302	85.564	31.485	1.00	15.67	B	C
ATOM	3389	CB	ILE	B	177	-3.149	85.366	30.479	1.00	16.57	B	C
ATOM	3390	CG2	ILE	B	177	-2.076	84.471	31.092	1.00	15.73	B	C
ATOM	3391	CG1	ILE	B	177	-3.679	84.754	29.184	1.00	17.67	B	C
ATOM	3392	CD1	ILE	B	177	-2.639	84.634	28.094	1.00	16.12	B	C
ATOM	3393	C	ILE	B	177	-3.730	86.191	32.746	1.00	15.83	B	C
ATOM	3394	O	ILE	B	177	-3.319	87.356	32.742	1.00	15.47	B	O
ATOM	3395	N	ILE	B	178	-3.721	85.427	33.832	1.00	15.84	B	N
ATOM	3396	CA	ILE	B	178	-3.178	85.932	35.080	1.00	15.63	B	C
ATOM	3397	CB	ILE	B	178	-3.958	85.402	36.314	1.00	16.93	B	C
ATOM	3398	CG2	ILE	B	178	-3.370	85.986	37.589	1.00	15.87	B	C
ATOM	3399	CG1	ILE	B	178	-5.432	85.807	36.228	1.00	18.02	B	C
ATOM	3400	CD1	ILE	B	178	-6.267	85.341	37.422	1.00	17.46	B	C
ATOM	3401	C	ILE	B	178	-1.724	85.486	35.190	1.00	14.02	B	C
ATOM	3402	O	ILE	B	178	-1.416	84.300	35.089	1.00	13.65	B	O
ATOM	3403	N	LEU	B	179	-0.833	86.449	35.376	1.00	14.12	B	N
ATOM	3404	CA	LEU	B	179	0.589	86.150	35.525	1.00	14.34	B	C
ATOM	3405	CB	LEU	B	179	1.428	87.340	35.053	1.00	15.34	B	C
ATOM	3406	CG	LEU	B	179	1.169	87.783	33.610	1.00	16.04	B	C
ATOM	3407	CD1	LEU	B	179	1.942	89.073	33.332	1.00	18.24	B	C
ATOM	3408	CD2	LEU	B	179	1.574	86.680	32.636	1.00	16.26	B	C
ATOM	3409	C	LEU	B	179	0.783	85.915	37.021	1.00	14.01	B	C
ATOM	3410	O	LEU	B	179	1.391	86.727	37.719	1.00	13.42	B	O
ATOM	3411	N	GLY	B	180	0.252	84.790	37.493	1.00	13.50	B	N
ATOM	3412	CA	GLY	B	180	0.310	84.448	38.906	1.00	13.79	B	C
ATOM	3413	C	GLY	B	180	1.632	83.927	39.417	1.00	12.30	B	C
ATOM	3414	O	GLY	B	180	1.681	82.902	40.093	1.00	14.02	B	O
ATOM	3415	N	CYS	B	181	2.702	84.647	39.093	1.00	13.12	B	N
ATOM	3416	CA	CYS	B	181	4.048	84.295	39.518	1.00	11.26	B	C
ATOM	3417	CB	CYS	B	181	4.591	83.150	38.667	1.00	11.52	B	C
ATOM	3418	SG	CYS	B	181	6.279	82.671	39.091	1.00	14.29	B	S
ATOM	3419	C	CYS	B	181	4.927	85.532	39.348	1.00	11.67	B	C
ATOM	3420	O	CYS	B	181	4.837	86.226	38.336	1.00	10.15	B	O
ATOM	3421	N	THR	B	182	5.770	85.796	40.342	1.00	10.95	B	N
ATOM	3422	CA	THR	B	182	6.671	86.950	40.329	1.00	11.68	B	C
ATOM	3423	CB	THR	B	182	7.654	86.902	41.517	1.00	12.29	B	C
ATOM	3424	OG1	THR	B	182	8.306	85.623	41.546	1.00	8.82	B	O
ATOM	3425	CG2	THR	B	182	6.918	87.133	42.832	1.00	13.05	B	C
ATOM	3426	C	THR	B	182	7.511	87.085	39.068	1.00	12.00	B	C
ATOM	3427	O	THR	B	182	7.775	88.190	38.604	1.00	11.14	B	O
ATOM	3428	N	HIS	B	183	7.927	85.953	38.516	1.00	11.51	B	N
ATOM	3429	CA	HIS	B	183	8.782	85.934	37.333	1.00	12.53	B	C
ATOM	3430	CB	HIS	B	183	9.490	84.577	37.250	1.00	12.11	B	C
ATOM	3431	CG	HIS	B	183	10.413	84.301	38.396	1.00	12.62	B	C
ATOM	3432	CD2	HIS	B	183	11.662	83.774	38.425	1.00	14.37	B	C

Figure 4III

ATOM	3433	ND1	HIS	B	183	10.074	84.558	39.708	1.00	12.87	B	N
ATOM	3434	CE1	HIS	B	183	11.076	84.206	40.495	1.00	11.92	B	C
ATOM	3435	NE2	HIS	B	183	12.051	83.728	39.741	1.00	12.64	B	N
ATOM	3436	C	HIS	B	183	8.113	86.202	35.990	1.00	13.70	B	C
ATOM	3437	O	HIS	B	183	8.735	86.757	35.082	1.00	14.63	B	O
ATOM	3438	N	PHE	B	184	6.846	85.822	35.866	1.00	14.67	B	N
ATOM	3439	CA	PHE	B	184	6.134	85.945	34.595	1.00	13.80	B	C
ATOM	3440	CB	PHE	B	184	4.751	85.298	34.731	1.00	14.23	B	C
ATOM	3441	CG	PHE	B	184	4.809	83.829	35.102	1.00	13.65	B	C
ATOM	3442	CD1	PHE	B	184	3.646	83.084	35.240	1.00	16.74	B	C
ATOM	3443	CD2	PHE	B	184	6.035	83.207	35.355	1.00	14.92	B	C
ATOM	3444	CE1	PHE	B	184	3.698	81.743	35.631	1.00	13.35	B	C
ATOM	3445	CE2	PHE	B	184	6.097	81.866	35.746	1.00	14.40	B	C
ATOM	3446	CZ	PHE	B	184	4.923	81.136	35.884	1.00	13.35	B	C
ATOM	3447	C	PHE	B	184	6.049	87.314	33.921	1.00	13.82	B	C
ATOM	3448	O	PHE	B	184	5.991	87.391	32.691	1.00	13.30	B	O
ATOM	3449	N	PRO	B	185	6.032	88.409	34.697	1.00	13.55	B	N
ATOM	3450	CD	PRO	B	185	5.786	88.577	36.143	1.00	14.61	B	C
ATOM	3451	CA	PRO	B	185	5.966	89.701	34.008	1.00	14.00	B	C
ATOM	3452	CB	PRO	B	185	5.964	90.702	35.158	1.00	15.55	B	C
ATOM	3453	CG	PRO	B	185	5.186	89.971	36.210	1.00	16.68	B	C
ATOM	3454	C	PRO	B	185	7.158	89.907	33.063	1.00	14.41	B	C
ATOM	3455	O	PRO	B	185	7.057	90.640	32.076	1.00	14.66	B	O
ATOM	3456	N	LEU	B	186	8.285	89.257	33.355	1.00	13.60	B	N
ATOM	3457	CA	LEU	B	186	9.462	89.410	32.503	1.00	14.78	B	C
ATOM	3458	CB	LEU	B	186	10.707	88.844	33.185	1.00	16.45	B	C
ATOM	3459	CG	LEU	B	186	11.268	89.716	34.312	1.00	17.76	B	C
ATOM	3460	CD1	LEU	B	186	12.601	89.149	34.788	1.00	18.57	B	C
ATOM	3461	CD2	LEU	B	186	11.454	91.145	33.800	1.00	19.96	B	C
ATOM	3462	C	LEU	B	186	9.299	88.796	31.115	1.00	14.26	B	C
ATOM	3463	O	LEU	B	186	10.105	89.060	30.219	1.00	13.67	B	O
ATOM	3464	N	ILE	B	187	8.271	87.973	30.933	1.00	13.72	B	N
ATOM	3465	CA	ILE	B	187	8.007	87.391	29.616	1.00	14.52	B	C
ATOM	3466	CB	ILE	B	187	8.252	85.852	29.567	1.00	16.13	B	C
ATOM	3467	CG2	ILE	B	187	9.734	85.563	29.730	1.00	15.11	B	C
ATOM	3468	CG1	ILE	B	187	7.418	85.134	30.630	1.00	14.95	B	C
ATOM	3469	CD1	ILE	B	187	7.386	83.616	30.452	1.00	18.91	B	C
ATOM	3470	C	ILE	B	187	6.559	87.681	29.216	1.00	15.97	B	C
ATOM	3471	O	ILE	B	187	5.970	86.973	28.399	1.00	14.41	B	O
ATOM	3472	N	ALA	B	188	6.003	88.742	29.790	1.00	14.30	B	N
ATOM	3473	CA	ALA	B	188	4.623	89.138	29.511	1.00	16.72	B	C
ATOM	3474	CB	ALA	B	188	4.261	90.381	30.318	1.00	17.73	B	C
ATOM	3475	C	ALA	B	188	4.386	89.386	28.021	1.00	17.75	B	C
ATOM	3476	O	ALA	B	188	3.473	88.806	27.437	1.00	15.55	B	O
ATOM	3477	N	GLN	B	189	5.208	90.232	27.404	1.00	18.64	B	N
ATOM	3478	CA	GLN	B	189	5.045	90.521	25.979	1.00	20.60	B	C
ATOM	3479	CB	GLN	B	189	5.977	91.668	25.553	1.00	24.25	B	C
ATOM	3480	CG	GLN	B	189	7.448	91.297	25.369	1.00	34.75	B	C
ATOM	3481	CD	GLN	B	189	8.385	92.508	25.450	1.00	39.99	B	C
ATOM	3482	OE1	GLN	B	189	7.963	93.653	25.263	1.00	43.74	B	O
ATOM	3483	NE2	GLN	B	189	9.663	92.254	25.720	1.00	40.19	B	N
ATOM	3484	C	GLN	B	189	5.279	89.273	25.111	1.00	17.97	B	C
ATOM	3485	O	GLN	B	189	4.729	89.163	24.015	1.00	14.32	B	O
ATOM	3486	N	LYS	B	190	6.078	88.329	25.606	1.00	17.40	B	N
ATOM	3487	CA	LYS	B	190	6.341	87.097	24.859	1.00	16.80	B	C
ATOM	3488	CB	LYS	B	190	7.567	86.374	25.421	1.00	18.22	B	C
ATOM	3489	CG	LYS	B	190	8.878	87.117	25.218	1.00	21.88	B	C
ATOM	3490	CD	LYS	B	190	9.211	87.269	23.740	1.00	25.45	B	C

Figure 4JJJ

ATOM	3491	CE	LYS	B	190	10.416	88.179	23.543	1.00	29.36	B	C
ATOM	3492	NZ	LYS	B	190	10.790	88.298	22.110	1.00	29.28	B	N
ATOM	3493	C	LYS	B	190	5.123	86.176	24.920	1.00	16.76	B	C
ATOM	3494	O	LYS	B	190	4.775	85.521	23.934	1.00	15.72	B	O
ATOM	3495	N	ILE	B	191	4.484	86.118	26.085	1.00	17.36	B	N
ATOM	3496	CA	ILE	B	191	3.293	85.293	26.250	1.00	16.65	B	C
ATOM	3497	CB	ILE	B	191	2.835	85.283	27.722	1.00	16.29	B	C
ATOM	3498	CG2	ILE	B	191	1.429	84.706	27.837	1.00	15.90	B	C
ATOM	3499	CG1	ILE	B	191	3.827	84.472	28.561	1.00	14.41	B	C
ATOM	3500	CD1	ILE	B	191	3.575	84.556	30.065	1.00	15.15	B	C
ATOM	3501	C	ILE	B	191	2.206	85.902	25.371	1.00	17.73	B	C
ATOM	3502	O	ILE	B	191	1.431	85.201	24.730	1.00	17.39	B	O
ATOM	3503	N	GLU	B	192	2.174	87.227	25.343	1.00	19.90	B	N
ATOM	3504	CA	GLU	B	192	1.206	87.955	24.545	1.00	20.35	B	C
ATOM	3505	CB	GLU	B	192	1.368	89.452	24.811	1.00	22.52	B	C
ATOM	3506	CG	GLU	B	192	0.186	90.301	24.426	1.00	31.49	B	C
ATOM	3507	CD	GLU	B	192	0.310	91.705	24.981	1.00	36.51	B	C
ATOM	3508	OE1	GLU	B	192	0.342	91.845	26.223	1.00	39.33	B	O
ATOM	3509	OE2	GLU	B	192	0.384	92.660	24.179	1.00	38.77	B	O
ATOM	3510	C	GLU	B	192	1.468	87.638	23.077	1.00	18.85	B	C
ATOM	3511	O	GLU	B	192	0.553	87.274	22.327	1.00	18.00	B	O
ATOM	3512	N	GLY	B	193	2.733	87.764	22.685	1.00	19.26	B	N
ATOM	3513	CA	GLY	B	193	3.134	87.497	21.319	1.00	16.37	B	C
ATOM	3514	C	GLY	B	193	2.843	86.078	20.880	1.00	17.40	B	C
ATOM	3515	O	GLY	B	193	2.580	85.832	19.700	1.00	19.53	B	O
ATOM	3516	N	TYR	B	194	2.892	85.138	21.819	1.00	15.60	B	N
ATOM	3517	CA	TYR	B	194	2.621	83.740	21.494	1.00	16.39	B	C
ATOM	3518	CB	TYR	B	194	2.829	82.845	22.715	1.00	16.47	B	C
ATOM	3519	CG	TYR	B	194	2.502	81.386	22.452	1.00	15.75	B	C
ATOM	3520	CD1	TYR	B	194	3.470	80.515	21.964	1.00	17.79	B	C
ATOM	3521	CE1	TYR	B	194	3.171	79.178	21.698	1.00	18.26	B	C
ATOM	3522	CD2	TYR	B	194	1.216	80.887	22.669	1.00	15.15	B	C
ATOM	3523	CE2	TYR	B	194	0.904	79.551	22.403	1.00	16.44	B	C
ATOM	3524	CZ	TYR	B	194	1.890	78.703	21.920	1.00	15.60	B	C
ATOM	3525	OH	TYR	B	194	1.614	77.379	21.671	1.00	17.72	B	O
ATOM	3526	C	TYR	B	194	1.189	83.551	21.003	1.00	16.01	B	C
ATOM	3527	O	TYR	B	194	0.966	82.985	19.940	1.00	17.33	B	O
ATOM	3528	N	PHE	B	195	0.218	84.011	21.785	1.00	17.37	B	N
ATOM	3529	CA	PHE	B	195	-1.177	83.851	21.390	1.00	19.84	B	C
ATOM	3530	CB	PHE	B	195	-2.108	84.174	22.563	1.00	20.48	B	C
ATOM	3531	CG	PHE	B	195	-2.057	83.146	23.659	1.00	21.18	B	C
ATOM	3532	CD1	PHE	B	195	-1.166	83.281	24.720	1.00	20.24	B	C
ATOM	3533	CD2	PHE	B	195	-2.847	82.002	23.590	1.00	20.40	B	C
ATOM	3534	CE1	PHE	B	195	-1.061	82.289	25.692	1.00	18.52	B	C
ATOM	3535	CE2	PHE	B	195	-2.748	81.004	24.558	1.00	21.83	B	C
ATOM	3536	CZ	PHE	B	195	-1.853	81.149	25.609	1.00	18.80	B	C
ATOM	3537	C	PHE	B	195	-1.549	84.675	20.168	1.00	21.22	B	C
ATOM	3538	O	PHE	B	195	-2.381	84.260	19.364	1.00	23.42	B	O
ATOM	3539	N	MET	B	196	-0.920	85.835	20.018	1.00	20.91	B	N
ATOM	3540	CA	MET	B	196	-1.191	86.691	18.874	1.00	22.63	B	C
ATOM	3541	CB	MET	B	196	-0.632	88.096	19.110	1.00	21.19	B	C
ATOM	3542	CG	MET	B	196	-1.454	88.939	20.066	1.00	21.47	B	C
ATOM	3543	SD	MET	B	196	-3.106	89.333	19.420	1.00	22.89	B	S
ATOM	3544	CE	MET	B	196	-2.734	90.738	18.369	1.00	25.90	B	C
ATOM	3545	C	MET	B	196	-0.574	86.098	17.616	1.00	22.76	B	C
ATOM	3546	O	MET	B	196	-1.034	86.365	16.510	1.00	22.32	B	O
ATOM	3547	N	GLY	B	197	0.462	85.284	17.788	1.00	23.35	B	N
ATOM	3548	CA	GLY	B	197	1.117	84.682	16.644	1.00	23.78	B	C

Figure 4KKK

ATOM	3549	C	GLY B 197	0.612	83.294	16.308	1.00	26.07	B	C
ATOM	3550	O	GLY B 197	0.757	82.836	15.178	1.00	27.06	B	O
ATOM	3551	N	HIS B 198	0.011	82.618	17.280	1.00	24.62	B	N
ATOM	3552	CA	HIS B 198	-0.489	81.270	17.052	1.00	25.26	B	C
ATOM	3553	CB	HIS B 198	-0.143	80.393	18.250	1.00	24.79	B	C
ATOM	3554	CG	HIS B 198	1.318	80.087	18.358	1.00	27.65	B	C
ATOM	3555	CD2	HIS B 198	2.369	80.867	18.706	1.00	27.06	B	C
ATOM	3556	ND1	HIS B 198	1.847	78.858	18.026	1.00	29.54	B	N
ATOM	3557	CE1	HIS B 198	3.161	78.896	18.162	1.00	28.74	B	C
ATOM	3558	NE2	HIS B 198	3.503	80.104	18.572	1.00	27.31	B	N
ATOM	3559	C	HIS B 198	-1.982	81.189	16.742	1.00	25.16	B	C
ATOM	3560	O	HIS B 198	-2.470	80.160	16.274	1.00	25.84	B	O
ATOM	3561	N	PHE B 199	-2.701	82.274	17.002	1.00	23.99	B	N
ATOM	3562	CA	PHE B 199	-4.134	82.323	16.731	1.00	25.24	B	C
ATOM	3563	CB	PHE B 199	-4.939	82.150	18.021	1.00	25.35	B	C
ATOM	3564	CG	PHE B 199	-4.641	80.875	18.754	1.00	25.83	B	C
ATOM	3565	CD1	PHE B 199	-3.499	80.763	19.543	1.00	25.81	B	C
ATOM	3566	CD2	PHE B 199	-5.486	79.776	18.634	1.00	26.63	B	C
ATOM	3567	CE1	PHE B 199	-3.202	79.571	20.204	1.00	25.90	B	C
ATOM	3568	CE2	PHE B 199	-5.200	78.574	19.292	1.00	27.07	B	C
ATOM	3569	CZ	PHE B 199	-4.053	78.476	20.078	1.00	25.59	B	C
ATOM	3570	C	PHE B 199	-4.488	83.658	16.085	1.00	25.45	B	C
ATOM	3571	O	PHE B 199	-3.741	84.633	16.202	1.00	26.05	B	O
ATOM	3572	N	ALA B 200	-5.624	83.698	15.397	1.00	25.36	B	N
ATOM	3573	CA	ALA B 200	-6.066	84.926	14.744	1.00	26.49	B	C
ATOM	3574	CB	ALA B 200	-6.945	84.592	13.543	1.00	27.04	B	C
ATOM	3575	C	ALA B 200	-6.842	85.770	15.748	1.00	25.75	B	C
ATOM	3576	O	ALA B 200	-8.035	85.555	15.951	1.00	27.07	B	O
ATOM	3577	N	LEU B 201	-6.162	86.723	16.380	1.00	26.03	B	N
ATOM	3578	CA	LEU B 201	-6.801	87.588	17.371	1.00	25.45	B	C
ATOM	3579	CB	LEU B 201	-6.206	87.345	18.762	1.00	26.37	B	C
ATOM	3580	CG	LEU B 201	-6.409	85.971	19.404	1.00	27.87	B	C
ATOM	3581	CD1	LEU B 201	-5.727	85.944	20.768	1.00	27.55	B	C
ATOM	3582	CD2	LEU B 201	-7.895	85.681	19.539	1.00	28.11	B	C
ATOM	3583	C	LEU B 201	-6.668	89.069	17.041	1.00	24.86	B	C
ATOM	3584	O	LEU B 201	-5.571	89.565	16.801	1.00	25.77	B	O
ATOM	3585	N	PRO B 202	-7.792	89.795	17.036	1.00	25.07	B	N
ATOM	3586	CD	PRO B 202	-9.159	89.302	17.284	1.00	27.27	B	C
ATOM	3587	CA	PRO B 202	-7.801	91.229	16.739	1.00	27.30	B	C
ATOM	3588	CB	PRO B 202	-9.286	91.530	16.571	1.00	26.61	B	C
ATOM	3589	CG	PRO B 202	-9.919	90.581	17.541	1.00	28.74	B	C
ATOM	3590	C	PRO B 202	-7.162	92.024	17.878	1.00	28.85	B	C
ATOM	3591	O	PRO B 202	-6.625	93.111	17.676	1.00	31.54	B	O
ATOM	3592	N	THR B 203	-7.228	91.467	19.080	1.00	29.83	B	N
ATOM	3593	CA	THR B 203	-6.649	92.104	20.253	1.00	30.73	B	C
ATOM	3594	CB	THR B 203	-7.717	92.910	21.029	1.00	32.69	B	C
ATOM	3595	OG1	THR B 203	-7.113	93.535	22.168	1.00	38.76	B	O
ATOM	3596	CG2	THR B 203	-8.854	92.009	21.478	1.00	34.49	B	C
ATOM	3597	C	THR B 203	-6.057	91.009	21.142	1.00	30.11	B	C
ATOM	3598	O	THR B 203	-6.632	89.929	21.281	1.00	29.77	B	O
ATOM	3599	N	PRO B 204	-4.888	91.271	21.746	1.00	28.28	B	N
ATOM	3600	CD	PRO B 204	-4.105	92.519	21.714	1.00	29.99	B	C
ATOM	3601	CA	PRO B 204	-4.249	90.278	22.608	1.00	25.72	B	C
ATOM	3602	CB	PRO B 204	-2.871	90.878	22.851	1.00	27.64	B	C
ATOM	3603	CG	PRO B 204	-3.170	92.344	22.895	1.00	30.54	B	C
ATOM	3604	C	PRO B 204	-5.007	90.034	23.906	1.00	22.99	B	C
ATOM	3605	O	PRO B 204	-5.829	90.847	24.322	1.00	21.45	B	O
ATOM	3606	N	PRO B 205	-4.754	88.888	24.550	1.00	23.17	B	N

Figure 4LLL

ATOM	3607	CD	PRO B 205	-3.967	87.734	24.079	1.00	22.14	B	C
ATOM	3608	CA	PRO B 205	-5.435	88.579	25.812	1.00	21.71	B	C
ATOM	3609	CB	PRO B 205	-4.930	87.177	26.145	1.00	20.02	B	C
ATOM	3610	CG	PRO B 205	-4.640	86.587	24.791	1.00	24.28	B	C
ATOM	3611	C	PRO B 205	-5.013	89.592	26.870	1.00	20.42	B	C
ATOM	3612	O	PRO B 205	-3.884	90.081	26.855	1.00	20.68	B	O
ATOM	3613	N	LEU B 206	-5.920	89.912	27.781	1.00	19.56	B	N
ATOM	3614	CA	LEU B 206	-5.614	90.852	28.844	1.00	18.19	B	C
ATOM	3615	CB	LEU B 206	-6.903	91.341	29.506	1.00	19.98	B	C
ATOM	3616	CG	LEU B 206	-6.733	92.187	30.772	1.00	20.16	B	C
ATOM	3617	CD1	LEU B 206	-6.025	93.490	30.435	1.00	20.32	B	C
ATOM	3618	CD2	LEU B 206	-8.097	92.461	31.383	1.00	21.77	B	C
ATOM	3619	C	LEU B 206	-4.748	90.152	29.887	1.00	19.09	B	C
ATOM	3620	O	LEU B 206	-5.155	89.137	30.460	1.00	16.01	B	O
ATOM	3621	N	LEU B 207	-3.554	90.682	30.130	1.00	17.87	B	N
ATOM	3622	CA	LEU B 207	-2.673	90.086	31.128	1.00	19.96	B	C
ATOM	3623	CB	LEU B 207	-1.204	90.137	30.683	1.00	20.75	B	C
ATOM	3624	CG	LEU B 207	-0.775	89.375	29.427	1.00	23.64	B	C
ATOM	3625	CD1	LEU B 207	0.754	89.247	29.409	1.00	24.69	B	C
ATOM	3626	CD2	LEU B 207	-1.402	88.003	29.411	1.00	25.49	B	C
ATOM	3627	C	LEU B 207	-2.822	90.826	32.450	1.00	18.55	B	C
ATOM	3628	O	LEU B 207	-2.846	92.056	32.489	1.00	19.17	B	O
ATOM	3629	N	ILE B 208	-2.925	90.067	33.534	1.00	17.96	B	N
ATOM	3630	CA	ILE B 208	-3.064	90.645	34.860	1.00	17.50	B	C
ATOM	3631	CB	ILE B 208	-4.118	89.878	35.685	1.00	17.43	B	C
ATOM	3632	CG2	ILE B 208	-4.243	90.491	37.077	1.00	18.18	B	C
ATOM	3633	CG1	ILE B 208	-5.459	89.892	34.943	1.00	18.45	B	C
ATOM	3634	CD1	ILE B 208	-6.012	91.289	34.699	1.00	14.50	B	C
ATOM	3635	C	ILE B 208	-1.719	90.585	35.575	1.00	16.82	B	C
ATOM	3636	O	ILE B 208	-1.164	89.508	35.780	1.00	15.89	B	O
ATOM	3637	N	HIS B 209	-1.213	91.756	35.950	1.00	17.14	B	N
ATOM	3638	CA	HIS B 209	0.074	91.899	36.632	1.00	18.16	B	C
ATOM	3639	CB	HIS B 209	0.745	93.175	36.106	1.00	18.91	B	C
ATOM	3640	CG	HIS B 209	2.193	93.306	36.457	1.00	20.99	B	C
ATOM	3641	CD2	HIS B 209	3.306	93.162	35.699	1.00	19.36	B	C
ATOM	3642	ND1	HIS B 209	2.629	93.657	37.716	1.00	22.36	B	N
ATOM	3643	CE1	HIS B 209	3.949	93.725	37.718	1.00	21.52	B	C
ATOM	3644	NE2	HIS B 209	4.384	93.429	36.506	1.00	15.94	B	N
ATOM	3645	C	HIS B 209	-0.149	91.980	38.150	1.00	17.31	B	C
ATOM	3646	O	HIS B 209	-0.909	92.826	38.621	1.00	17.80	B	O
ATOM	3647	N	SER B 210	0.513	91.104	38.908	1.00	15.90	B	N
ATOM	3648	CA	SER B 210	0.361	91.070	40.366	1.00	18.09	B	C
ATOM	3649	CB	SER B 210	1.187	89.931	40.975	1.00	15.92	B	C
ATOM	3650	OG	SER B 210	0.783	88.671	40.475	1.00	17.30	B	O
ATOM	3651	C	SER B 210	0.762	92.368	41.048	1.00	18.89	B	C
ATOM	3652	O	SER B 210	0.146	92.783	42.036	1.00	18.64	B	O
ATOM	3653	N	GLY B 211	1.806	92.999	40.527	1.00	18.49	B	N
ATOM	3654	CA	GLY B 211	2.276	94.241	41.105	1.00	17.93	B	C
ATOM	3655	C	GLY B 211	1.300	95.384	40.929	1.00	18.65	B	C
ATOM	3656	O	GLY B 211	0.988	96.088	41.888	1.00	18.89	B	O
ATOM	3657	N	ASP B 212	0.821	95.585	39.708	1.00	17.89	B	N
ATOM	3658	CA	ASP B 212	-0.122	96.666	39.454	1.00	19.78	B	C
ATOM	3659	CB	ASP B 212	-0.441	96.776	37.959	1.00	21.36	B	C
ATOM	3660	CG	ASP B 212	0.789	97.074	37.119	1.00	25.55	B	C
ATOM	3661	OD1	ASP B 212	1.588	97.954	37.509	1.00	24.93	B	O
ATOM	3662	OD2	ASP B 212	0.948	96.432	36.059	1.00	27.71	B	O
ATOM	3663	C	ASP B 212	-1.414	96.441	40.227	1.00	18.76	B	C
ATOM	3664	O	ASP B 212	-2.025	97.389	40.712	1.00	19.27	B	O

Figure 4MMM

ATOM	3665	N	ALA B 213	-1.825	95.182	40.344	1.00	19.86	B	N
ATOM	3666	CA	ALA B 213	-3.055	94.847	41.054	1.00	17.54	B	C
ATOM	3667	CB	ALA B 213	-3.378	93.372	40.876	1.00	17.05	B	C
ATOM	3668	C	ALA B 213	-2.959	95.183	42.539	1.00	19.06	B	C
ATOM	3669	O	ALA B 213	-3.901	95.725	43.120	1.00	16.90	B	O
ATOM	3670	N	ILE B 214	-1.823	94.876	43.158	1.00	15.97	B	N
ATOM	3671	CA	ILE B 214	-1.678	95.162	44.577	1.00	16.41	B	C
ATOM	3672	CB	ILE B 214	-0.503	94.357	45.206	1.00	17.51	B	C
ATOM	3673	CG2	ILE B 214	0.841	94.960	44.809	1.00	16.99	B	C
ATOM	3674	CG1	ILE B 214	-0.639	94.359	46.733	1.00	17.48	B	C
ATOM	3675	CD1	ILE B 214	0.283	93.366	47.436	1.00	20.67	B	C
ATOM	3676	C	ILE B 214	-1.516	96.656	44.864	1.00	16.49	B	C
ATOM	3677	O	ILE B 214	-1.933	97.133	45.917	1.00	16.10	B	O
ATOM	3678	N	VAL B 215	-0.927	97.403	43.933	1.00	16.36	B	N
ATOM	3679	CA	VAL B 215	-0.772	98.841	44.139	1.00	17.16	B	C
ATOM	3680	CB	VAL B 215	-0.016	99.509	42.964	1.00	19.48	B	C
ATOM	3681	CG1	VAL B 215	-0.179	101.017	43.027	1.00	17.77	B	C
ATOM	3682	CG2	VAL B 215	1.470	99.147	43.022	1.00	17.10	B	C
ATOM	3683	C	VAL B 215	-2.161	99.471	44.259	1.00	18.05	B	C
ATOM	3684	O	VAL B 215	-2.417	100.282	45.153	1.00	17.39	B	O
ATOM	3685	N	GLU B 216	-3.054	99.089	43.354	1.00	19.67	B	N
ATOM	3686	CA	GLU B 216	-4.411	99.617	43.357	1.00	21.54	B	C
ATOM	3687	CB	GLU B 216	-5.188	99.059	42.166	1.00	23.84	B	C
ATOM	3688	CG	GLU B 216	-4.815	99.727	40.853	1.00	26.87	B	C
ATOM	3689	CD	GLU B 216	-5.388	99.014	39.648	1.00	30.91	B	C
ATOM	3690	OE1	GLU B 216	-5.399	99.623	38.558	1.00	34.30	B	O
ATOM	3691	OE2	GLU B 216	-5.815	97.845	39.785	1.00	31.99	B	O
ATOM	3692	C	GLU B 216	-5.126	99.293	44.657	1.00	20.92	B	C
ATOM	3693	O	GLU B 216	-5.815	100.141	45.223	1.00	19.64	B	O
ATOM	3694	N	TYR B 217	-4.955	98.065	45.135	1.00	21.71	B	N
ATOM	3695	CA	TYR B 217	-5.583	97.649	46.386	1.00	21.99	B	C
ATOM	3696	CB	TYR B 217	-5.307	96.167	46.658	1.00	22.18	B	C
ATOM	3697	CG	TYR B 217	-5.831	95.693	47.995	1.00	20.53	B	C
ATOM	3698	CD1	TYR B 217	-7.199	95.534	48.213	1.00	22.61	B	C
ATOM	3699	CE1	TYR B 217	-7.692	95.113	49.456	1.00	20.09	B	C
ATOM	3700	CD2	TYR B 217	-4.961	95.422	49.051	1.00	19.57	B	C
ATOM	3701	CE2	TYR B 217	-5.440	95.002	50.293	1.00	19.82	B	C
ATOM	3702	CZ	TYR B 217	-6.807	94.849	50.488	1.00	20.38	B	C
ATOM	3703	OH	TYR B 217	-7.288	94.422	51.709	1.00	19.08	B	O
ATOM	3704	C	TYR B 217	-5.056	98.473	47.558	1.00	22.00	B	C
ATOM	3705	O	TYR B 217	-5.832	98.992	48.362	1.00	21.85	B	O
ATOM	3706	N	LEU B 218	-3.734	98.591	47.654	1.00	19.08	B	N
ATOM	3707	CA	LEU B 218	-3.113	99.341	48.740	1.00	19.40	B	C
ATOM	3708	CB	LEU B 218	-1.585	99.279	48.615	1.00	17.82	B	C
ATOM	3709	CG	LEU B 218	-0.941	97.888	48.742	1.00	18.28	B	C
ATOM	3710	CD1	LEU B 218	0.541	97.968	48.389	1.00	15.96	B	C
ATOM	3711	CD2	LEU B 218	-1.128	97.353	50.155	1.00	16.26	B	C
ATOM	3712	C	LEU B 218	-3.582	100.798	48.791	1.00	21.94	B	C
ATOM	3713	O	LEU B 218	-3.841	101.335	49.866	1.00	18.51	B	O
ATOM	3714	N	GLN B 219	-3.691	101.433	47.629	1.00	22.92	B	N
ATOM	3715	CA	GLN B 219	-4.139	102.822	47.562	1.00	24.80	B	C
ATOM	3716	CB	GLN B 219	-4.004	103.353	46.129	1.00	26.04	B	C
ATOM	3717	CG	GLN B 219	-2.577	103.325	45.592	1.00	28.25	B	C
ATOM	3718	CD	GLN B 219	-2.470	103.820	44.156	1.00	28.07	B	C
ATOM	3719	OE1	GLN B 219	-3.166	103.334	43.262	1.00	25.98	B	O
ATOM	3720	NE2	GLN B 219	-1.588	104.790	43.932	1.00	30.48	B	N
ATOM	3721	C	GLN B 219	-5.596	102.914	48.005	1.00	24.27	B	C
ATOM	3722	O	GLN B 219	-5.995	103.859	48.683	1.00	25.16	B	O

Figure 4NNN

ATOM	3723	N	GLN B 220	-6.375	101.912	47.620	1.00	24.30	B	N
ATOM	3724	CA	GLN B 220	-7.792	101.838	47.943	1.00	28.00	B	C
ATOM	3725	CB	GLN B 220	-8.410	100.663	47.184	1.00	31.02	B	C
ATOM	3726	CG	GLN B 220	-9.920	100.674	47.077	1.00	39.36	B	C
ATOM	3727	CD	GLN B 220	-10.411	101.639	46.020	1.00	44.14	B	C
ATOM	3728	OE1	GLN B 220	-10.260	102.854	46.154	1.00	47.44	B	O
ATOM	3729	NE2	GLN B 220	-10.995	101.101	44.954	1.00	47.51	B	N
ATOM	3730	C	GLN B 220	-8.013	101.635	49.444	1.00	29.46	B	C
ATOM	3731	O	GLN B 220	-8.553	102.499	50.137	1.00	28.33	B	O
ATOM	3732	N	LYS B 221	-7.570	100.477	49.927	1.00	29.84	B	N
ATOM	3733	CA	LYS B 221	-7.720	100.075	51.321	1.00	28.05	B	C
ATOM	3734	CB	LYS B 221	-7.249	98.626	51.477	1.00	29.20	B	C
ATOM	3735	CG	LYS B 221	-8.124	97.761	52.381	1.00	33.06	B	C
ATOM	3736	CD	LYS B 221	-8.114	98.242	53.817	1.00	34.46	B	C
ATOM	3737	CE	LYS B 221	-8.796	97.239	54.738	1.00	34.63	B	C
ATOM	3738	NZ	LYS B 221	-8.003	95.993	54.896	1.00	31.31	B	N
ATOM	3739	C	LYS B 221	-7.012	100.953	52.345	1.00	27.08	B	C
ATOM	3740	O	LYS B 221	-7.556	101.230	53.416	1.00	27.24	B	O
ATOM	3741	N	TYR B 222	-5.804	101.399	52.029	1.00	25.82	B	N
ATOM	3742	CA	TYR B 222	-5.052	102.212	52.973	1.00	27.04	B	C
ATOM	3743	CB	TYR B 222	-3.658	101.616	53.147	1.00	22.44	B	C
ATOM	3744	CG	TYR B 222	-3.708	100.166	53.576	1.00	22.86	B	C
ATOM	3745	CD1	TYR B 222	-4.156	99.815	54.854	1.00	19.32	B	C
ATOM	3746	CE1	TYR B 222	-4.258	98.484	55.243	1.00	19.44	B	C
ATOM	3747	CD2	TYR B 222	-3.357	99.134	52.694	1.00	20.72	B	C
ATOM	3748	CE2	TYR B 222	-3.456	97.792	53.078	1.00	19.21	B	C
ATOM	3749	CZ	TYR B 222	-3.909	97.482	54.351	1.00	19.82	B	C
ATOM	3750	OH	TYR B 222	-4.027	96.167	54.725	1.00	19.05	B	O
ATOM	3751	C	TYR B 222	-4.968	103.667	52.539	1.00	29.48	B	C
ATOM	3752	O	TYR B 222	-4.096	104.405	52.986	1.00	31.72	B	O
ATOM	3753	N	ALA B 223	-5.900	104.089	51.696	1.00	32.87	B	N
ATOM	3754	CA	ALA B 223	-5.895	105.466	51.201	1.00	36.60	B	C
ATOM	3755	CB	ALA B 223	-6.672	106.421	52.148	1.00	37.41	B	C
ATOM	3756	C	ALA B 223	-4.442	105.909	51.088	1.00	38.06	B	C
ATOM	3757	O	ALA B 223	-4.060	106.977	51.560	1.00	38.78	B	C
ATOM	3758	N	LEU B 224	-3.627	105.088	50.441	1.00	38.57	B	N
ATOM	3759	CA	LEU B 224	-2.215	105.403	50.264	1.00	38.61	B	C
ATOM	3760	CB	LEU B 224	-1.402	104.097	50.136	1.00	39.37	B	C
ATOM	3761	CG	LEU B 224	-1.183	103.355	51.466	1.00	39.96	B	C
ATOM	3762	CD1	LEU B 224	-0.057	102.350	51.297	1.00	39.16	B	C
ATOM	3763	CD2	LEU B 224	-0.818	104.336	52.585	1.00	41.79	B	C
ATOM	3764	C	LEU B 224	-1.949	106.306	49.064	1.00	38.91	B	C
ATOM	3765	O	LEU B 224	-2.714	106.190	48.105	1.00	38.22	B	O
ATOM	3766	OXT	LEU B 224	-0.969	107.085	49.068	1.00	39.30	B	O
ATOM	3767	CB	PRO B 232	11.684	106.007	48.754	1.00	35.25	B	C
ATOM	3768	CG	PRO B 232	11.385	107.285	47.963	1.00	36.48	B	C
ATOM	3769	C	PRO B 232	13.583	105.559	50.328	1.00	32.21	B	C
ATOM	3770	O	PRO B 232	14.407	105.139	49.517	1.00	33.63	B	O
ATOM	3771	N	PRO B 232	13.132	107.820	49.423	1.00	34.70	B	N
ATOM	3772	CD	PRO B 232	12.673	108.108	48.053	1.00	35.80	B	C
ATOM	3773	CA	PRO B 232	12.514	106.559	49.903	1.00	34.68	B	C
ATOM	3774	N	LYS B 233	13.566	105.183	51.602	1.00	30.94	B	N
ATOM	3775	CA	LYS B 233	14.542	104.237	52.126	1.00	27.68	B	C
ATOM	3776	CB	LYS B 233	14.693	104.412	53.637	1.00	30.73	B	C
ATOM	3777	CG	LYS B 233	15.074	105.817	54.076	1.00	37.18	B	C
ATOM	3778	CD	LYS B 233	15.073	105.930	55.594	1.00	41.29	B	C
ATOM	3779	CE	LYS B 233	15.358	107.357	56.045	1.00	46.10	B	C
ATOM	3780	NZ	LYS B 233	15.389	107.476	57.535	1.00	49.46	B	N

Figure 4000

ATOM	3781	C	LYS B 233	14.115	102.805	51.823	1.00	25.78	B	C
ATOM	3782	O	LYS B 233	12.984	102.404	52.108	1.00	21.74	B	O
ATOM	3783	N	VAL B 234	15.027	102.041	51.238	1.00	23.23	B	N
ATOM	3784	CA	VAL B 234	14.755	100.652	50.902	1.00	22.01	B	C
ATOM	3785	CB	VAL B 234	14.425	100.486	49.403	1.00	22.47	B	C
ATOM	3786	CG1	VAL B 234	14.095	99.034	49.105	1.00	23.89	B	C
ATOM	3787	CG2	VAL B 234	13.267	101.386	49.015	1.00	24.31	B	C
ATOM	3788	C	VAL B 234	15.997	99.825	51.204	1.00	21.91	B	C
ATOM	3789	O	VAL B 234	17.083	100.121	50.702	1.00	19.49	B	O
ATOM	3790	N	GLU B 235	15.850	98.805	52.041	1.00	19.26	B	N
ATOM	3791	CA	GLU B 235	16.987	97.956	52.343	1.00	19.57	B	C
ATOM	3792	CB	GLU B 235	17.407	98.085	53.812	1.00	22.19	B	C
ATOM	3793	CG	GLU B 235	16.367	97.736	54.849	1.00	27.30	B	C
ATOM	3794	CD	GLU B 235	16.893	97.954	56.266	1.00	31.20	B	C
ATOM	3795	OE1	GLU B 235	17.214	99.113	56.617	1.00	30.91	B	O
ATOM	3796	OE2	GLU B 235	16.992	96.967	57.027	1.00	31.05	B	O
ATOM	3797	C	GLU B 235	16.667	96.513	51.979	1.00	17.90	B	C
ATOM	3798	O	GLU B 235	15.514	96.071	52.067	1.00	17.20	B	O
ATOM	3799	N	PHE B 236	17.694	95.797	51.538	1.00	15.16	B	N
ATOM	3800	CA	PHE B 236	17.540	94.417	51.121	1.00	14.57	B	C
ATOM	3801	CB	PHE B 236	18.080	94.240	49.702	1.00	13.24	B	C
ATOM	3802	CG	PHE B 236	17.406	95.123	48.695	1.00	14.78	B	C
ATOM	3803	CD1	PHE B 236	17.807	96.448	48.529	1.00	13.54	B	C
ATOM	3804	CD2	PHE B 236	16.338	94.647	47.944	1.00	13.10	B	C
ATOM	3805	CE1	PHE B 236	17.148	97.281	47.625	1.00	15.52	B	C
ATOM	3806	CE2	PHE B 236	15.676	95.471	47.043	1.00	11.79	B	C
ATOM	3807	CZ	PHE B 236	16.083	96.792	46.884	1.00	13.41	B	C
ATOM	3808	C	PHE B 236	18.206	93.432	52.055	1.00	14.79	B	C
ATOM	3809	O	PHE B 236	19.298	93.668	52.566	1.00	14.15	B	O
ATOM	3810	N	HIS B 237	17.519	92.319	52.270	1.00	13.68	B	N
ATOM	3811	CA	HIS B 237	17.993	91.266	53.147	1.00	11.28	B	C
ATOM	3812	CB	HIS B 237	17.235	91.319	54.466	1.00	12.27	B	C
ATOM	3813	CG	HIS B 237	17.437	92.597	55.219	1.00	14.02	B	C
ATOM	3814	CD2	HIS B 237	16.779	93.778	55.159	1.00	14.88	B	C
ATOM	3815	ND1	HIS B 237	18.460	92.771	56.126	1.00	14.41	B	N
ATOM	3816	CE1	HIS B 237	18.423	94.006	56.593	1.00	18.35	B	C
ATOM	3817	NE2	HIS B 237	17.413	94.638	56.023	1.00	14.90	B	N
ATOM	3818	C	HIS B 237	17.705	89.961	52.437	1.00	13.01	B	C
ATOM	3819	O	HIS B 237	16.725	89.860	51.702	1.00	12.07	B	O
ATOM	3820	N	ALA B 238	18.554	88.967	52.665	1.00	12.63	B	N
ATOM	3821	CA	ALA B 238	18.387	87.671	52.022	1.00	11.54	B	C
ATOM	3822	CB	ALA B 238	19.018	87.700	50.639	1.00	9.85	B	C
ATOM	3823	C	ALA B 238	19.010	86.554	52.836	1.00	14.48	B	C
ATOM	3824	O	ALA B 238	19.998	86.765	53.533	1.00	14.69	B	O
ATOM	3825	N	SER B 239	18.424	85.364	52.741	1.00	14.68	B	N
ATOM	3826	CA	SER B 239	18.948	84.202	53.447	1.00	14.80	B	C
ATOM	3827	CB	SER B 239	17.862	83.141	53.608	1.00	13.43	B	C
ATOM	3828	OG	SER B 239	17.340	82.758	52.355	1.00	13.26	B	O
ATOM	3829	C	SER B 239	20.104	83.656	52.614	1.00	14.91	B	C
ATOM	3830	O	SER B 239	20.945	82.902	53.107	1.00	12.99	B	O
ATOM	3831	N	GLY B 240	20.134	84.050	51.344	1.00	14.12	B	N
ATOM	3832	CA	GLY B 240	21.197	83.631	50.455	1.00	15.59	B	C
ATOM	3833	C	GLY B 240	22.217	84.752	50.346	1.00	16.66	B	C
ATOM	3834	O	GLY B 240	22.520	85.416	51.334	1.00	16.99	B	O
ATOM	3835	N	ASP B 241	22.732	84.985	49.145	1.00	15.94	B	N
ATOM	3836	CA	ASP B 241	23.722	86.036	48.947	1.00	17.18	B	C
ATOM	3837	CB	ASP B 241	24.487	85.795	47.649	1.00	18.32	B	C
ATOM	3838	CG	ASP B 241	25.703	86.673	47.527	1.00	21.73	B	C

Figure 4PPP

ATOM	3839	OD1 ASP B 241	25.702	87.771	48.126	1.00	22.80	B	O
ATOM	3840	OD2 ASP B 241	26.653	86.277	46.824	1.00	23.86	B	O
ATOM	3841	C ASP B 241	23.070	87.416	48.899	1.00	15.91	B	C
ATOM	3842	O ASP B 241	22.566	87.838	47.855	1.00	18.69	B	O
ATOM	3843	N VAL B 242	23.091	88.125	50.022	1.00	15.82	B	N
ATOM	3844	CA VAL B 242	22.480	89.447	50.079	1.00	15.47	B	C
ATOM	3845	CB VAL B 242	22.373	89.961	51.538	1.00	14.55	B	C
ATOM	3846	CG1 VAL B 242	23.753	90.329	52.079	1.00	14.67	B	C
ATOM	3847	CG2 VAL B 242	21.405	91.147	51.599	1.00	13.95	B	C
ATOM	3848	C VAL B 242	23.230	90.480	49.242	1.00	16.20	B	C
ATOM	3849	O VAL B 242	22.624	91.396	48.693	1.00	16.97	B	O
ATOM	3850	N ILE B 243	24.546	90.347	49.145	1.00	15.87	B	N
ATOM	3851	CA ILE B 243	25.307	91.303	48.351	1.00	15.88	B	C
ATOM	3852	CB ILE B 243	26.833	91.076	48.512	1.00	17.32	B	C
ATOM	3853	CG2 ILE B 243	27.606	91.924	47.510	1.00	17.19	B	C
ATOM	3854	CG1 ILE B 243	27.249	91.447	49.940	1.00	19.37	B	C
ATOM	3855	CD1 ILE B 243	28.685	91.096	50.286	1.00	19.42	B	C
ATOM	3856	C ILE B 243	24.882	91.191	46.889	1.00	14.23	B	C
ATOM	3857	O ILE B 243	24.745	92.200	46.201	1.00	14.19	B	O
ATOM	3858	N TRP B 244	24.651	89.967	46.421	1.00	14.60	B	N
ATOM	3859	CA TRP B 244	24.207	89.756	45.046	1.00	14.98	B	C
ATOM	3860	CB TRP B 244	24.078	88.264	44.729	1.00	15.60	B	C
ATOM	3861	CG TRP B 244	23.575	87.999	43.329	1.00	16.65	B	C
ATOM	3862	CD2 TRP B 244	22.210	87.806	42.930	1.00	19.35	B	C
ATOM	3863	CE2 TRP B 244	22.206	87.617	41.527	1.00	18.45	B	C
ATOM	3864	CE3 TRP B 244	20.989	87.775	43.622	1.00	18.90	B	C
ATOM	3865	GD1 TRP B 244	24.321	87.924	42.184	1.00	18.57	B	C
ATOM	3866	NE1 TRP B 244	23.506	87.694	41.097	1.00	17.92	B	N
ATOM	3867	CZ2 TRP B 244	21.029	87.398	40.803	1.00	17.47	B	C
ATOM	3868	CZ3 TRP B 244	19.818	87.558	42.902	1.00	18.34	B	C
ATOM	3869	CH2 TRP B 244	19.847	87.371	41.504	1.00	17.51	B	C
ATOM	3870	C TRP B 244	22.845	90.409	44.850	1.00	16.58	B	C
ATOM	3871	O TRP B 244	22.616	91.102	43.859	1.00	17.56	B	O
ATOM	3872	N LEU B 245	21.937	90.180	45.796	1.00	15.30	B	N
ATOM	3873	CA LEU B 245	20.599	90.749	45.707	1.00	15.38	B	C
ATOM	3874	CB LEU B 245	19.746	90.306	46.900	1.00	14.42	B	C
ATOM	3875	CG LEU B 245	18.287	90.782	46.894	1.00	12.51	B	C
ATOM	3876	CD1 LEU B 245	17.536	90.163	45.723	1.00	15.01	B	C
ATOM	3877	CD2 LEU B 245	17.618	90.397	48.215	1.00	15.46	B	C
ATOM	3878	C LEU B 245	20.648	92.270	45.660	1.00	15.93	B	C
ATOM	3879	O LEU B 245	19.895	92.901	44.916	1.00	11.84	B	O
ATOM	3880	N GLU B 246	21.534	92.865	46.454	1.00	16.60	B	N
ATOM	3881	CA GLU B 246	21.636	94.317	46.480	1.00	17.29	B	C
ATOM	3882	CB GLU B 246	22.496	94.782	47.658	1.00	18.17	B	C
ATOM	3883	CG GLU B 246	21.896	94.455	49.020	1.00	19.87	B	C
ATOM	3884	CD GLU B 246	22.776	94.908	50.176	1.00	21.82	B	C
ATOM	3885	OE1 GLU B 246	24.001	94.687	50.101	1.00	23.59	B	O
ATOM	3886	OE2 GLU B 246	22.244	95.471	51.161	1.00	18.84	B	O
ATOM	3887	C GLU B 246	22.213	94.819	45.171	1.00	19.10	B	C
ATOM	3888	O GLU B 246	21.866	95.905	44.711	1.00	18.10	B	O
ATOM	3889	N ARG B 247	23.082	94.016	44.564	1.00	20.90	B	N
ATOM	3890	CA ARG B 247	23.694	94.384	43.296	1.00	21.36	B	C
ATOM	3891	CB ARG B 247	24.819	93.407	42.945	1.00	23.57	B	C
ATOM	3892	CG ARG B 247	25.698	93.843	41.780	1.00	28.81	B	C
ATOM	3893	CD ARG B 247	26.796	92.813	41.516	1.00	31.64	B	C
ATOM	3894	NE ARG B 247	27.648	92.622	42.688	1.00	33.01	B	N
ATOM	3895	CZ ARG B 247	27.953	91.437	43.214	1.00	34.15	B	C
ATOM	3896	NH1 ARG B 247	27.475	90.319	42.678	1.00	32.31	B	N

Figure 4QQQ

ATOM	3897	NH2 ARG B 247	28.742	91.372	44.281	1.00	32.59	B	N
ATOM	3898	C ARG B 247	22.612	94.369	42.218	1.00	21.28	B	C
ATOM	3899	O ARG B 247	22.613	95.212	41.319	1.00	18.68	B	O
ATOM	3900	N GLN B 248	21.689	93.411	42.316	1.00	19.88	B	N
ATOM	3901	CA GLN B 248	20.587	93.310	41.359	1.00	18.33	B	C
ATOM	3902	CB GLN B 248	19.778	92.027	41.586	1.00	16.87	B	C
ATOM	3903	CG GLN B 248	20.458	90.749	41.119	1.00	17.30	B	C
ATOM	3904	CD GLN B 248	20.794	90.768	39.631	1.00	21.87	B	C
ATOM	3905	OE1 GLN B 248	19.946	91.077	38.790	1.00	23.30	B	O
ATOM	3906	NE2 GLN B 248	22.032	90.423	39.304	1.00	24.03	B	N
ATOM	3907	C GLN B 248	19.670	94.518	41.528	1.00	17.34	B	C
ATOM	3908	O GLN B 248	19.166	95.071	40.550	1.00	16.87	B	O
ATOM	3909	N ALA B 249	19.451	94.917	42.777	1.00	15.06	B	N
ATOM	3910	CA ALA B 249	18.598	96.069	43.059	1.00	17.68	B	C
ATOM	3911	CB ALA B 249	18.435	96.240	44.557	1.00	14.89	B	C
ATOM	3912	C ALA B 249	19.210	97.332	42.449	1.00	16.19	B	C
ATOM	3913	O ALA B 249	18.509	98.166	41.878	1.00	15.71	B	O
ATOM	3914	N LYS B 250	20.523	97.466	42.578	1.00	15.67	B	N
ATOM	3915	CA LYS B 250	21.221	98.625	42.039	1.00	16.75	B	C
ATOM	3916	CB LYS B 250	22.686	98.599	42.493	1.00	20.71	B	C
ATOM	3917	CG LYS B 250	23.555	99.725	41.952	1.00	24.70	B	C
ATOM	3918	CD LYS B 250	23.089	101.093	42.425	1.00	29.48	B	C
ATOM	3919	CE LYS B 250	24.028	102.180	41.914	1.00	34.06	B	C
ATOM	3920	NZ LYS B 250	23.548	103.549	42.249	1.00	35.09	B	N
ATOM	3921	C LYS B 250	21.137	98.633	40.514	1.00	16.02	B	C
ATOM	3922	O LYS B 250	20.910	99.672	39.899	1.00	16.61	B	O
ATOM	3923	N GLU B 251	21.300	97.464	39.907	1.00	16.92	B	N
ATOM	3924	CA GLU B 251	21.256	97.366	38.457	1.00	16.87	B	C
ATOM	3925	CB GLU B 251	21.789	96.009	38.000	1.00	17.15	B	C
ATOM	3926	CG GLU B 251	21.913	95.902	36.492	1.00	19.76	B	C
ATOM	3927	CD GLU B 251	22.195	94.495	36.030	1.00	21.03	B	C
ATOM	3928	OE1 GLU B 251	22.812	93.728	36.796	1.00	21.54	B	O
ATOM	3929	OE2 GLU B 251	21.813	94.159	34.891	1.00	23.50	B	O
ATOM	3930	C GLU B 251	19.864	97.561	37.868	1.00	18.30	B	C
ATOM	3931	O GLU B 251	19.696	98.297	36.895	1.00	18.23	B	O
ATOM	3932	N TRP B 252	18.865	96.918	38.464	1.00	17.41	B	N
ATOM	3933	CA TRP B 252	17.509	96.997	37.939	1.00	17.31	B	C
ATOM	3934	CB TRP B 252	16.868	95.610	37.973	1.00	16.21	B	C
ATOM	3935	CG TRP B 252	17.639	94.610	37.197	1.00	16.40	B	C
ATOM	3936	CD2 TRP B 252	17.650	94.459	35.775	1.00	17.43	B	C
ATOM	3937	CE2 TRP B 252	18.546	93.412	35.475	1.00	17.08	B	C
ATOM	3938	CE3 TRP B 252	16.988	95.107	34.723	1.00	20.12	B	C
ATOM	3939	CD1 TRP B 252	18.505	93.677	37.690	1.00	18.25	B	C
ATOM	3940	NE1 TRP B 252	19.053	92.954	36.662	1.00	17.57	B	N
ATOM	3941	CZ2 TRP B 252	18.799	92.996	34.167	1.00	16.27	B	C
ATOM	3942	CZ3 TRP B 252	17.239	94.691	33.416	1.00	18.36	B	C
ATOM	3943	CH2 TRP B 252	18.137	93.646	33.153	1.00	18.85	B	C
ATOM	3944	C TRP B 252	16.555	98.000	38.565	1.00	20.68	B	C
ATOM	3945	O TRP B 252	15.631	98.468	37.896	1.00	23.26	B	O
ATOM	3946	N LEU B 253	16.762	98.333	39.833	1.00	20.19	B	N
ATOM	3947	CA LEU B 253	15.878	99.279	40.508	1.00	22.15	B	C
ATOM	3948	CB LEU B 253	15.392	98.680	41.832	1.00	19.99	B	C
ATOM	3949	CG LEU B 253	14.796	97.269	41.748	1.00	20.08	B	C
ATOM	3950	CD1 LEU B 253	14.520	96.731	43.149	1.00	15.94	B	C
ATOM	3951	CD2 LEU B 253	13.521	97.299	40.918	1.00	20.16	B	C
ATOM	3952	C LEU B 253	16.588	100.602	40.766	1.00	25.98	B	C
ATOM	3953	O LEU B 253	15.971	101.573	41.213	1.00	28.88	B	O
ATOM	3954	N LYS B 254	17.887	100.631	40.478	1.00	28.33	B	N

Figure 4RRR

ATOM	3955	CA	LYS	B	254	18.713	101.822	40.684	1.00	32.00	B	C
ATOM	3956	CB	LYS	B	254	18.210	102.985	39.818	1.00	33.97	B	C
ATOM	3957	CG	LYS	B	254	17.844	102.597	38.388	1.00	37.77	B	C
ATOM	3958	CD	LYS	B	254	18.983	101.890	37.661	1.00	38.80	B	C
ATOM	3959	CE	LYS	B	254	18.544	101.453	36.265	1.00	41.63	B	C
ATOM	3960	NZ	LYS	B	254	19.608	100.705	35.535	1.00	41.49	B	N
ATOM	3961	C	LYS	B	254	18.677	102.214	42.162	1.00	32.29	B	C
ATOM	3962	O	LYS	B	254	18.716	103.399	42.511	1.00	32.23	B	O
ATOM	3963	N	LEU	B	255	18.603	101.201	43.022	1.00	31.24	B	N
ATOM	3964	CA	LEU	B	255	18.560	101.397	44.469	1.00	34.52	B	C
ATOM	3965	CB	LEU	B	255	17.250	100.844	45.039	1.00	34.04	B	C
ATOM	3966	CG	LEU	B	255	15.917	101.437	44.584	1.00	36.59	B	C
ATOM	3967	CD1	LEU	B	255	14.795	100.596	45.162	1.00	35.66	B	C
ATOM	3968	CD2	LEU	B	255	15.791	102.888	45.036	1.00	36.85	B	C
ATOM	3969	C	LEU	B	255	19.727	100.667	45.132	1.00	35.40	B	C
ATOM	3970	O	LEU	B	255	20.326	99.794	44.473	1.00	34.56	B	O
ATOM	3971	OXT	LEU	B	255	20.014	100.959	46.310	1.00	38.02	B	O
ATOM	4058	OH2	TIP	S	1	26.694	70.185	39.535	1.00	10.43	S	O
ATOM	4059	OH2	TIP	S	2	26.903	61.775	37.433	1.00	10.86	S	O
ATOM	4060	OH2	TIP	S	3	35.118	64.928	45.661	1.00	9.77	S	O
ATOM	4061	OH2	TIP	S	4	3.740	88.714	42.243	1.00	12.17	S	O
ATOM	4062	OH2	TIP	S	5	-3.817	87.331	48.367	1.00	15.62	S	O
ATOM	4063	OH2	TIP	S	6	16.515	80.411	54.861	1.00	15.64	S	O
ATOM	4064	OH2	TIP	S	7	26.620	62.820	41.255	1.00	10.32	S	O
ATOM	4065	OH2	TIP	S	8	3.173	81.112	41.277	1.00	12.87	S	O
ATOM	4066	OH2	TIP	S	9	-5.009	77.145	39.859	1.00	14.54	S	O
ATOM	4067	OH2	TIP	S	10	17.072	78.274	43.100	1.00	15.49	S	O
ATOM	4068	OH2	TIP	S	11	11.094	82.014	54.953	1.00	13.66	S	O
ATOM	4069	OH2	TIP	S	12	23.114	78.487	54.347	1.00	14.98	S	O
ATOM	4070	OH2	TIP	S	13	20.046	86.513	47.218	1.00	13.55	S	O
ATOM	4071	OH2	TIP	S	14	2.655	89.017	38.291	1.00	15.07	S	O
ATOM	4072	OH2	TIP	S	15	9.228	70.350	55.121	1.00	12.46	S	O
ATOM	4073	OH2	TIP	S	16	16.739	84.862	44.381	1.00	12.76	S	O
ATOM	4074	OH2	TIP	S	17	25.567	61.078	39.581	1.00	14.41	S	O
ATOM	4075	OH2	TIP	S	18	37.252	56.626	40.690	1.00	14.19	S	O
ATOM	4076	OH2	TIP	S	19	18.275	89.911	32.191	1.00	17.34	S	O
ATOM	4077	OH2	TIP	S	20	34.008	72.385	38.024	1.00	14.04	S	O
ATOM	4078	OH2	TIP	S	21	-1.688	79.172	55.257	1.00	19.38	S	O
ATOM	4079	OH2	TIP	S	22	22.366	80.667	29.821	1.00	24.75	S	O
ATOM	4080	OH2	TIP	S	23	12.380	75.091	59.029	1.00	20.05	S	O
ATOM	4081	OH2	TIP	S	24	22.730	75.591	37.990	1.00	18.05	S	O
ATOM	4082	OH2	TIP	S	25	-4.035	89.431	50.414	1.00	17.74	S	O
ATOM	4083	OH2	TIP	S	26	4.573	89.940	39.949	1.00	14.11	S	O
ATOM	4084	OH2	TIP	S	27	-1.906	87.737	40.180	1.00	17.43	S	O
ATOM	4085	OH2	TIP	S	28	10.589	69.698	44.737	1.00	21.71	S	O
ATOM	4086	OH2	TIP	S	29	25.201	95.439	52.148	1.00	16.83	S	O
ATOM	4087	OH2	TIP	S	30	-8.367	85.700	23.246	1.00	15.98	S	O
ATOM	4088	OH2	TIP	S	31	35.982	63.130	47.769	1.00	15.06	S	O
ATOM	4089	OH2	TIP	S	32	21.296	70.481	54.804	1.00	19.30	S	O
ATOM	4090	OH2	TIP	S	33	20.570	73.504	39.900	1.00	18.13	S	O
ATOM	4091	OH2	TIP	S	34	27.666	49.772	40.587	1.00	14.52	S	O
ATOM	4092	OH2	TIP	S	35	9.700	74.285	55.955	1.00	16.17	S	O
ATOM	4093	OH2	TIP	S	36	12.186	64.800	48.529	1.00	17.60	S	O
ATOM	4094	OH2	TIP	S	37	13.322	82.831	56.421	1.00	13.15	S	O
ATOM	4095	OH2	TIP	S	38	34.693	38.751	49.392	1.00	20.67	S	O
ATOM	4096	OH2	TIP	S	39	-5.001	91.649	54.454	1.00	20.34	S	O
ATOM	4097	OH2	TIP	S	40	15.761	67.824	58.496	1.00	21.39	S	O
ATOM	4098	OH2	TIP	S	41	11.148	84.424	43.877	1.00	12.67	S	O

Figure 4SSS

ATOM	4099	OH2 TIP S	42	37.642	61.003	46.856	1.00	17.93	S	O
ATOM	4100	OH2 TIP S	43	-4.373	79.173	41.785	1.00	16.71	S	O
ATOM	4101	OH2 TIP S	44	43.723	52.077	51.584	1.00	18.94	S	O
ATOM	4102	OH2 TIP S	45	20.137	97.010	51.207	1.00	22.61	S	O
ATOM	4103	OH2 TIP S	46	-4.186	94.391	33.354	1.00	24.48	S	O
ATOM	4104	OH2 TIP S	47	10.434	59.744	34.860	1.00	20.09	S	O
ATOM	4105	OH2 TIP S	48	11.296	69.306	47.243	1.00	20.43	S	O
ATOM	4106	OH2 TIP S	49	13.514	84.678	43.033	1.00	17.25	S	O
ATOM	4107	OH2 TIP S	50	27.738	70.677	61.698	1.00	22.46	S	O
ATOM	4108	OH2 TIP S	51	16.289	72.356	55.129	1.00	13.74	S	O
ATOM	4109	OH2 TIP S	52	-4.477	95.904	37.489	1.00	27.31	S	O
ATOM	4110	OH2 TIP S	53	34.164	74.207	35.803	1.00	16.19	S	O
ATOM	4111	OH2 TIP S	54	13.181	73.070	43.734	1.00	17.17	S	O
ATOM	4112	OH2 TIP S	55	-3.958	90.260	57.512	1.00	25.11	S	O
ATOM	4113	OH2 TIP S	56	30.703	42.485	54.038	1.00	21.11	S	O
ATOM	4114	OH2 TIP S	57	30.922	56.349	27.885	1.00	20.13	S	O
ATOM	4115	OH2 TIP S	58	14.662	74.601	55.720	1.00	22.72	S	O
ATOM	4116	OH2 TIP S	59	38.507	59.138	50.812	1.00	19.14	S	O
ATOM	4117	OH2 TIP S	60	42.816	67.475	28.609	1.00	20.79	S	O
ATOM	4118	OH2 TIP S	61	-6.400	95.465	43.206	1.00	18.25	S	O
ATOM	4119	OH2 TIP S	62	6.561	102.864	47.606	1.00	21.89	S	O
ATOM	4120	OH2 TIP S	63	35.560	76.427	29.271	1.00	20.86	S	O
ATOM	4121	OH2 TIP S	64	5.810	69.019	32.123	1.00	25.31	S	O
ATOM	4122	OH2 TIP S	65	30.127	54.457	33.804	1.00	22.20	S	O
ATOM	4123	OH2 TIP S	66	14.517	98.509	59.915	1.00	20.97	S	O
ATOM	4124	OH2 TIP S	67	20.921	81.728	55.488	1.00	15.12	S	O
ATOM	4125	OH2 TIP S	68	18.125	78.127	55.061	1.00	22.38	S	O
ATOM	4126	OH2 TIP S	69	4.578	106.224	53.414	1.00	23.88	S	O
ATOM	4127	OH2 TIP S	70	-13.259	95.151	42.403	1.00	22.02	S	O
ATOM	4128	OH2 TIP S	71	19.506	66.848	43.948	1.00	14.64	S	O
ATOM	4129	OH2 TIP S	72	20.492	58.168	29.357	1.00	24.23	S	O
ATOM	4130	OH2 TIP S	73	14.362	66.682	45.311	1.00	21.95	S	O
ATOM	4131	OH2 TIP S	74	37.948	64.500	49.199	1.00	22.89	S	O
ATOM	4132	OH2 TIP S	75	22.382	83.107	46.881	1.00	21.36	S	O
ATOM	4133	OH2 TIP S	76	2.257	71.707	33.743	1.00	22.26	S	O
ATOM	4134	OH2 TIP S	77	28.562	50.607	60.811	1.00	23.59	S	O
ATOM	4135	OH2 TIP S	78	12.908	55.269	54.605	1.00	22.04	S	O
ATOM	4136	OH2 TIP S	79	23.712	82.581	52.850	1.00	18.46	S	O
ATOM	4137	OH2 TIP S	80	6.000	64.702	50.376	1.00	22.24	S	O
ATOM	4138	OH2 TIP S	81	31.597	63.665	38.013	1.00	16.06	S	O
ATOM	4139	OH2 TIP S	82	3.204	101.393	39.851	1.00	18.09	S	O
ATOM	4140	OH2 TIP S	83	-3.695	88.746	62.013	1.00	24.84	S	O
ATOM	4141	OH2 TIP S	84	17.546	65.110	21.326	1.00	19.55	S	O
ATOM	4142	OH2 TIP S	85	26.824	59.347	62.759	1.00	26.30	S	O
ATOM	4143	OH2 TIP S	86	29.013	78.700	36.194	1.00	29.19	S	O
ATOM	4144	OH2 TIP S	87	-21.912	84.760	37.477	1.00	26.29	S	O
ATOM	4145	OH2 TIP S	88	37.659	49.564	54.905	1.00	21.54	S	O
ATOM	4146	OH2 TIP S	89	15.623	89.654	61.494	1.00	20.60	S	O
ATOM	4147	OH2 TIP S	90	46.913	73.636	27.864	1.00	24.09	S	O
ATOM	4148	OH2 TIP S	91	31.635	68.716	13.795	1.00	26.68	S	O
ATOM	4149	OH2 TIP S	92	8.998	77.444	41.106	1.00	21.52	S	O
ATOM	4150	OH2 TIP S	93	19.563	69.848	56.803	1.00	23.78	S	O
ATOM	4151	OH2 TIP S	94	21.054	77.796	57.903	1.00	20.91	S	O
ATOM	4152	OH2 TIP S	95	39.029	70.195	42.752	1.00	19.43	S	O
ATOM	4153	OH2 TIP S	96	16.357	59.879	28.472	1.00	34.72	S	O
ATOM	4154	OH2 TIP S	97	6.277	85.600	21.656	1.00	18.30	S	O
ATOM	4155	OH2 TIP S	98	24.381	79.010	25.797	1.00	24.45	S	O
ATOM	4156	OH2 TIP S	99	-0.330	73.515	46.326	1.00	21.44	S	O

Figure 4TTT

ATOM	4157	OH2 TIP S 100	19.996	63.469	21.479	1.00	20.07	S	O
ATOM	4158	OH2 TIP S 101	8.484	64.804	37.057	1.00	21.03	S	O
ATOM	4159	OH2 TIP S 102	18.063	76.067	36.689	1.00	20.99	S	O
ATOM	4160	OH2 TIP S 103	13.804	68.104	43.044	1.00	25.16	S	O
ATOM	4161	OH2 TIP S 104	10.019	70.355	50.629	1.00	23.39	S	O
ATOM	4162	OH2 TIP S 105	36.764	63.450	55.390	1.00	19.23	S	O
ATOM	4163	OH2 TIP S 106	-3.017	81.106	52.043	1.00	29.08	S	O
ATOM	4164	OH2 TIP S 107	33.894	73.874	51.602	1.00	22.56	S	O
ATOM	4165	OH2 TIP S 108	-10.562	79.620	30.884	1.00	25.06	S	O
ATOM	4166	OH2 TIP S 109	-3.241	87.887	16.187	1.00	22.20	S	O
ATOM	4167	OH2 TIP S 110	36.320	79.997	40.961	1.00	30.47	S	O
ATOM	4168	OH2 TIP S 111	12.536	71.003	57.233	1.00	20.62	S	O
ATOM	4169	OH2 TIP S 112	-0.943	95.950	34.554	1.00	25.68	S	O
ATOM	4170	OH2 TIP S 113	14.938	45.779	46.539	1.00	32.69	S	O
ATOM	4171	OH2 TIP S 114	44.541	72.750	24.779	1.00	28.57	S	O
ATOM	4172	OH2 TIP S 115	16.028	56.338	61.884	1.00	27.69	S	O
ATOM	4173	OH2 TIP S 116	25.959	84.862	44.510	1.00	22.27	S	O
ATOM	4174	OH2 TIP S 117	11.898	70.641	40.303	1.00	29.38	S	O
ATOM	4175	OH2 TIP S 118	20.005	82.352	45.778	1.00	23.69	S	O
ATOM	4176	OH2 TIP S 119	24.653	82.113	42.509	1.00	26.73	S	O
ATOM	4177	OH2 TIP S 120	39.045	70.244	55.129	1.00	26.86	S	O
ATOM	4178	OH2 TIP S 121	-14.861	94.263	30.815	1.00	25.70	S	O
ATOM	4179	OH2 TIP S 122	28.805	79.348	55.384	1.00	24.42	S	O
ATOM	4180	OH2 TIP S 123	34.409	78.819	35.704	1.00	22.51	S	O
ATOM	4181	OH2 TIP S 124	25.708	95.887	48.431	1.00	22.52	S	O
ATOM	4182	OH2 TIP S 125	20.200	81.715	43.235	1.00	28.28	S	O
ATOM	4183	OH2 TIP S 126	8.358	89.545	27.306	1.00	25.44	S	O
ATOM	4184	OH2 TIP S 127	28.451	42.142	55.370	1.00	32.71	S	O
ATOM	4185	OH2 TIP S 128	-1.140	72.535	35.377	1.00	25.03	S	O
ATOM	4186	OH2 TIP S 129	42.723	73.261	29.197	1.00	26.01	S	O
ATOM	4187	OH2 TIP S 130	0.475	106.754	43.565	1.00	35.60	S	O
ATOM	4188	OH2 TIP S 131	-8.799	81.517	47.238	1.00	30.82	S	O
ATOM	4189	OH2 TIP S 132	18.817	63.647	62.682	1.00	23.39	S	O
ATOM	4190	OH2 TIP S 133	-14.788	83.367	33.703	1.00	22.25	S	O
ATOM	4191	OH2 TIP S 134	28.486	47.289	40.587	1.00	26.04	S	O
ATOM	4192	OH2 TIP S 135	13.709	66.288	58.292	1.00	31.84	S	O
ATOM	4193	OH2 TIP S 136	4.869	72.011	43.934	1.00	21.85	S	O
ATOM	4194	OH2 TIP S 137	-19.103	77.442	35.205	1.00	29.80	S	O
ATOM	4195	OH2 TIP S 138	20.407	79.490	35.831	1.00	35.16	S	O
ATOM	4196	OH2 TIP S 139	10.860	84.010	22.443	1.00	27.02	S	O
ATOM	4197	OH2 TIP S 140	0.151	101.506	60.922	1.00	25.88	S	O
ATOM	4198	OH2 TIP S 141	31.584	47.279	41.254	1.00	23.80	S	O
ATOM	4199	OH2 TIP S 142	38.066	70.701	25.990	1.00	19.24	S	O
ATOM	4200	OH2 TIP S 143	44.977	72.631	31.204	1.00	23.78	S	O
ATOM	4201	OH2 TIP S 144	10.719	65.231	40.054	1.00	26.38	S	O
ATOM	4202	OH2 TIP S 145	7.475	91.297	29.034	1.00	27.02	S	O
ATOM	4203	OH2 TIP S 146	37.874	61.748	52.268	1.00	29.73	S	O
ATOM	4204	OH2 TIP S 147	-5.574	93.894	53.509	1.00	23.66	S	O
ATOM	4205	OH2 TIP S 148	17.820	78.905	36.654	1.00	28.79	S	O
ATOM	4206	OH2 TIP S 149	29.549	83.050	48.881	1.00	26.52	S	O
ATOM	4207	OH2 TIP S 150	-10.366	100.932	54.067	1.00	20.68	S	O
ATOM	4208	OH2 TIP S 151	30.504	64.646	60.794	1.00	28.37	S	O
ATOM	4209	OH2 TIP S 152	49.012	70.756	24.772	1.00	31.55	S	O
ATOM	4210	OH2 TIP S 153	30.846	45.257	57.188	1.00	31.72	S	O
ATOM	4211	OH2 TIP S 154	43.180	59.055	25.923	1.00	26.29	S	O
ATOM	4212	OH2 TIP S 155	22.523	66.585	65.647	1.00	32.96	S	O
ATOM	4213	OH2 TIP S 156	2.253	106.632	56.997	1.00	37.06	S	O
ATOM	4214	OH2 TIP S 157	21.987	90.927	36.214	1.00	24.25	S	O

Figure 4UUU

ATOM	4215	OH2 TIP S 158	24.995	45.779	50.248	1.00	28.19	S	O
ATOM	4216	OH2 TIP S 159	24.701	87.274	52.417	1.00	25.41	S	O
ATOM	4217	OH2 TIP S 160	19.481	54.793	61.669	1.00	24.28	S	O
ATOM	4218	OH2 TIP S 161	5.052	66.267	52.559	1.00	20.50	S	O
ATOM	4219	OH2 TIP S 162	24.083	47.425	48.238	1.00	32.20	S	O
ATOM	4220	OH2 TIP S 163	50.567	67.161	31.028	1.00	21.83	S	O
ATOM	4221	OH2 TIP S 164	15.358	64.805	23.213	1.00	24.49	S	O
ATOM	4222	OH2 TIP S 165	-1.913	91.256	42.961	1.00	21.23	S	O
ATOM	4223	OH2 TIP S 166	32.576	60.552	40.991	1.00	24.61	S	O
ATOM	4224	OH2 TIP S 167	5.829	70.768	57.525	1.00	22.41	S	O
ATOM	4225	OH2 TIP S 168	6.357	83.074	62.946	1.00	20.77	S	O
ATOM	4226	OH2 TIP S 169	28.962	85.053	47.200	1.00	36.42	S	O
ATOM	4227	OH2 TIP S 170	22.828	55.785	37.965	1.00	34.04	S	O
ATOM	4228	OH2 TIP S 171	9.903	109.166	51.388	1.00	29.79	S	O
ATOM	4229	OH2 TIP S 172	6.629	71.093	33.592	1.00	24.39	S	O
ATOM	4230	OH2 TIP S 173	24.428	80.747	55.009	1.00	17.22	S	O
ATOM	4231	OH2 TIP S 174	11.049	67.896	25.243	1.00	28.73	S	O
ATOM	4232	OH2 TIP S 175	26.525	84.672	50.346	1.00	22.59	S	O
ATOM	4233	OH2 TIP S 176	14.485	79.387	59.276	1.00	36.33	S	O
ATOM	4234	OH2 TIP S 178	-8.133	88.350	22.930	1.00	24.98	S	O
ATOM	4235	OH2 TIP S 179	11.008	89.282	26.933	1.00	26.38	S	O
ATOM	4236	OH2 TIP S 180	29.198	77.232	57.047	1.00	28.34	S	O
ATOM	4237	OH2 TIP S 181	42.985	63.495	21.723	1.00	32.93	S	O
ATOM	4238	OH2 TIP S 182	-2.488	92.239	26.844	1.00	31.41	S	O
ATOM	4239	OH2 TIP S 183	38.070	68.391	49.950	1.00	27.44	S	O
ATOM	4240	OH2 TIP S 184	3.026	87.382	17.697	1.00	24.17	S	O
ATOM	4241	OH2 TIP S 185	32.032	45.265	50.288	1.00	26.40	S	O
ATOM	4242	OH2 TIP S 186	39.904	55.447	42.177	1.00	25.49	S	O
ATOM	4243	OH2 TIP S 187	2.867	70.555	28.600	1.00	25.55	S	O
ATOM	4244	OH2 TIP S 188	28.784	77.898	31.205	1.00	27.78	S	O
ATOM	4245	OH2 TIP S 189	6.525	74.751	39.761	1.00	27.53	S	O
ATOM	4246	OH2 TIP S 190	-6.708	81.142	14.878	1.00	30.15	S	O
ATOM	4247	OH2 TIP S 191	23.949	87.249	38.410	1.00	26.94	S	O
ATOM	4248	OH2 TIP S 192	5.279	83.214	19.647	1.00	23.04	S	O
ATOM	4249	OH2 TIP S 193	7.787	93.915	65.832	1.00	34.56	S	O
ATOM	4250	OH2 TIP S 194	40.056	62.665	49.571	1.00	45.56	S	O
ATOM	4251	OH2 TIP S 195	17.005	83.158	42.309	1.00	26.09	S	O
ATOM	4252	OH2 TIP S 196	39.783	52.482	36.066	1.00	43.89	S	O
ATOM	4253	OH2 TIP S 197	21.034	85.408	34.631	1.00	21.18	S	O
ATOM	4254	OH2 TIP S 198	-2.760	93.994	35.518	1.00	32.71	S	O
ATOM	4255	OH2 TIP S 199	-14.876	77.201	34.781	1.00	29.91	S	O
ATOM	4256	OH2 TIP S 200	7.796	94.208	62.630	1.00	34.21	S	O
ATOM	4257	OH2 TIP S 201	-10.407	94.563	54.451	1.00	30.66	S	O
ATOM	4258	OH2 TIP S 202	19.132	85.088	38.251	1.00	26.36	S	O
ATOM	4259	OH2 TIP S 203	46.329	71.427	42.245	1.00	38.45	S	O
ATOM	4260	OH2 TIP S 204	38.151	49.728	42.054	1.00	23.90	S	O
ATOM	4261	OH2 TIP S 205	-16.881	92.357	37.722	1.00	29.19	S	O
ATOM	4262	OH2 TIP S 206	8.018	58.831	39.198	1.00	17.50	S	O
ATOM	4263	OH2 TIP S 207	23.689	77.990	32.612	1.00	37.51	S	O
ATOM	4264	OH2 TIP S 208	30.303	45.065	54.676	1.00	28.16	S	O
ATOM	4265	OH2 TIP S 209	25.161	84.823	52.568	1.00	29.69	S	O
ATOM	4266	OH2 TIP S 210	23.062	78.703	21.684	1.00	26.51	S	O
ATOM	4267	OH2 TIP S 211	26.355	47.512	59.226	1.00	41.38	S	O
ATOM	4268	OH2 TIP S 212	12.364	73.834	56.670	1.00	17.58	S	O
ATOM	4269	OH2 TIP S 213	22.789	101.251	38.634	1.00	36.48	S	O
ATOM	4270	OH2 TIP S 214	30.444	78.274	42.812	1.00	18.27	S	O
ATOM	4271	OH2 TIP S 215	16.714	66.636	43.404	1.00	27.82	S	O
ATOM	4272	OH2 TIP S 216	11.118	110.647	48.883	1.00	41.21	S	O

Figure 4VVV

ATOM	4273	OH2 TIP S 217	11.938	77.223	62.477	1.00	26.78	S	O
ATOM	4274	OH2 TIP S 218	21.348	98.318	46.299	1.00	22.54	S	O
ATOM	4275	OH2 TIP S 219	6.335	90.109	61.055	1.00	30.93	S	O
ATOM	4276	OH2 TIP S 220	16.849	58.092	31.635	1.00	27.78	S	O
ATOM	4277	OH2 TIP S 221	-14.977	98.435	36.110	1.00	29.94	S	O
ATOM	4278	OH2 TIP S 222	32.209	56.644	34.417	1.00	27.61	S	O
ATOM	4279	OH2 TIP S 223	38.616	69.338	19.683	1.00	35.00	S	O
ATOM	4280	OH2 TIP S 224	43.793	66.187	40.980	1.00	28.57	S	O
ATOM	4281	OH2 TIP S 225	25.865	49.291	48.912	1.00	22.19	S	O
ATOM	4282	OH2 TIP S 226	29.493	51.282	39.294	1.00	28.59	S	O
ATOM	4283	OH2 TIP S 227	8.557	68.734	23.715	1.00	32.38	S	O
ATOM	4284	OH2 TIP S 228	35.030	72.215	49.061	1.00	21.47	S	O
ATOM	4285	OH2 TIP S 229	-5.863	84.407	53.693	1.00	32.71	S	O
ATOM	4286	OH2 TIP S 230	8.409	66.822	21.454	1.00	32.17	S	O
ATOM	4287	OH2 TIP S 231	16.090	88.535	25.766	1.00	45.41	S	O
ATOM	4288	OH2 TIP S 232	5.228	66.001	48.372	1.00	33.03	S	O
ATOM	4289	OH2 TIP S 233	22.372	81.334	39.929	1.00	38.56	S	O
ATOM	4290	OH2 TIP S 234	-11.344	82.468	23.312	1.00	32.37	S	O
ATOM	4291	OH2 TIP S 235	-5.663	88.297	52.367	1.00	28.46	S	O
ATOM	4292	OH2 TIP S 236	13.616	74.457	18.786	1.00	42.18	S	O
ATOM	4293	OH2 TIP S 237	25.283	53.133	37.923	1.00	40.56	S	O
ATOM	4294	OH2 TIP S 238	8.026	53.624	54.137	1.00	31.65	S	O
ATOM	4295	OH2 TIP S 239	34.534	62.367	11.800	1.00	31.60	S	O
ATOM	4296	OH2 TIP S 240	1.831	56.099	44.184	1.00	34.48	S	O
ATOM	4297	OH2 TIP S 241	49.497	62.599	26.810	1.00	26.78	S	O
ATOM	4298	OH2 TIP S 242	-4.758	72.368	21.533	1.00	38.11	S	O
ATOM	4299	OH2 TIP S 243	-5.868	83.431	58.623	1.00	34.40	S	O
ATOM	4300	OH2 TIP S 244	29.156	81.797	37.170	1.00	39.60	S	O
ATOM	4301	OH2 TIP S 245	21.609	85.611	37.638	1.00	20.34	S	O
ATOM	4302	OH2 TIP S 246	-4.284	77.490	49.709	1.00	35.30	S	O
ATOM	4303	OH2 TIP S 247	31.807	48.664	61.432	1.00	43.66	S	O
ATOM	4304	OH2 TIP S 248	34.652	80.273	32.759	1.00	35.30	S	O
ATOM	4305	OH2 TIP S 249	-7.767	74.088	33.904	1.00	27.76	S	O
ATOM	4306	OH2 TIP S 250	-0.973	76.943	21.093	1.00	36.81	S	O
ATOM	4307	OH2 TIP S 251	17.520	103.841	50.759	1.00	37.13	S	O
ATOM	4308	OH2 TIP S 252	36.677	59.162	23.943	1.00	39.63	S	O
ATOM	4309	OH2 TIP S 253	-3.985	93.307	65.493	1.00	38.58	S	O
ATOM	4310	OH2 TIP S 254	26.053	53.836	34.851	1.00	37.31	S	O
ATOM	4311	OH2 TIP S 255	-7.010	78.156	28.377	1.00	28.40	S	O
ATOM	4312	OH2 TIP S 256	3.198	69.864	24.836	1.00	24.87	S	O
ATOM	4313	OH2 TIP S 257	-2.729	89.793	59.984	1.00	35.90	S	O
ATOM	4314	OH2 TIP S 259	12.874	62.780	21.486	1.00	40.71	S	O
ATOM	4315	OH2 TIP S 260	34.460	53.900	62.259	1.00	37.85	S	O
ATOM	4316	OH2 TIP S 261	8.524	50.114	40.677	1.00	29.93	S	O
ATOM	4317	OH2 TIP S 262	13.534	51.901	52.802	1.00	35.55	S	O
ATOM	4318	OH2 TIP S 263	-5.651	71.332	27.984	1.00	36.22	S	O
ATOM	4319	OH2 TIP S 264	10.884	74.117	37.648	1.00	23.87	S	O
ATOM	4320	OH2 TIP S 265	1.558	105.085	59.290	1.00	30.99	S	O
ATOM	4321	OH2 TIP S 267	22.855	87.241	54.244	1.00	39.85	S	O
ATOM	4322	OH2 TIP S 268	19.606	84.810	44.816	1.00	16.00	S	O
ATOM	4323	OH2 TIP S 269	10.246	57.810	32.854	1.00	25.86	S	O
ATOM	4324	OH2 TIP S 270	-21.599	79.618	39.328	1.00	38.76	S	O
ATOM	4325	OH2 TIP S 271	35.642	69.502	46.091	1.00	25.61	S	O
ATOM	4326	OH2 TIP S 272	7.124	71.606	39.935	1.00	32.52	S	O
ATOM	4327	OH2 TIP S 274	37.219	53.704	29.589	1.00	30.49	S	O
ATOM	4328	OH2 TIP S 275	15.688	71.656	41.660	1.00	35.47	S	O
ATOM	4329	OH2 TIP S 276	18.771	98.089	33.479	1.00	36.76	S	O
ATOM	4330	OH2 TIP S 277	18.891	96.723	59.037	1.00	34.81	S	O

Figure 4WWW

ATOM	4331	OH2 TIP S 279	20.582	96.155	32.990	1.00	36.72	S	O
ATOM	4332	OH2 TIP S 280	38.382	46.507	54.083	1.00	22.09	S	O
ATOM	4333	OH2 TIP S 284	33.499	78.469	29.422	1.00	42.54	S	O
ATOM	4334	OH2 TIP S 285	43.663	56.107	27.511	1.00	34.42	S	O
ATOM	4335	OH2 TIP S 286	35.122	60.670	20.712	1.00	39.38	S	O
ATOM	4336	OH2 TIP S 287	-1.725	96.233	63.363	1.00	35.97	S	O
ATOM	4337	OH2 TIP S 290	18.717	83.949	40.601	1.00	23.89	S	O
ATOM	4338	OH2 TIP S 291	38.772	45.987	46.680	1.00	36.15	S	O
ATOM	4339	OH2 TIP S 292	20.224	69.382	59.695	1.00	29.64	S	O
ATOM	4340	OH2 TIP S 293	8.282	78.199	63.669	1.00	36.59	S	O
ATOM	4341	OH2 TIP S 294	14.047	63.860	59.319	1.00	44.69	S	O
ATOM	4342	OH2 TIP S 297	-5.817	72.739	40.818	1.00	38.14	S	O
ATOM	4343	OH2 TIP S 298	26.321	64.439	12.786	1.00	45.15	S	O
ATOM	4344	OH2 TIP S 299	-6.944	102.099	43.661	1.00	28.91	S	O
ATOM	4345	OH2 TIP S 300	31.982	51.444	38.891	1.00	26.30	S	O
ATOM	4346	OH2 TIP S 301	22.179	61.349	17.217	1.00	28.54	S	O
ATOM	4347	OH2 TIP S 302	11.846	66.672	46.440	1.00	15.33	S	O
ATOM	4348	OH2 TIP S 303	16.579	61.209	61.822	1.00	25.84	S	O
ATOM	4349	OH2 TIP S 304	9.179	61.102	31.089	1.00	35.18	S	O
ATOM	4350	OH2 TIP S 306	43.337	56.983	38.631	1.00	31.17	S	O
ATOM	4351	OH2 TIP S 307	-4.729	79.060	14.954	1.00	29.45	S	O
ATOM	4352	OH2 TIP S 309	3.264	96.531	34.343	1.00	35.87	S	O
ATOM	4353	OH2 TIP S 310	33.597	56.115	32.020	1.00	38.28	S	O
ATOM	4354	OH2 TIP S 312	21.131	84.199	42.642	1.00	16.36	S	O
ATOM	4355	OH2 TIP S 314	13.289	90.298	22.035	1.00	37.86	S	O
ATOM	4356	OH2 TIP S 315	-21.318	88.597	32.650	1.00	31.68	S	O
ATOM	4357	OH2 TIP S 316	0.324	97.812	61.903	1.00	28.65	S	O
ATOM	4358	OH2 TIP S 317	15.681	48.773	53.561	1.00	32.11	S	O
ATOM	4359	OH2 TIP S 318	6.414	66.203	28.644	1.00	45.39	S	O
ATOM	4360	OH2 TIP S 320	21.877	45.789	57.051	1.00	37.88	S	O
ATOM	4361	OH2 TIP S 325	33.257	76.751	48.828	1.00	36.69	S	O
ATOM	4362	OH2 TIP S 326	-1.477	99.714	39.504	1.00	31.96	S	O
ATOM	4363	OH2 TIP S 327	7.083	107.442	40.232	1.00	34.50	S	O
ATOM	4364	OH2 TIP S 328	19.455	81.284	39.450	1.00	31.13	S	O
ATOM	4365	OH2 TIP S 330	18.928	59.678	27.698	1.00	23.64	S	O
ATOM	4366	OH2 TIP S 333	2.949	68.265	43.594	1.00	46.66	S	O
ATOM	4367	OH2 TIP S 334	-8.138	104.339	45.239	1.00	36.83	S	O
ATOM	4368	OH2 TIP S 336	3.891	58.458	48.159	1.00	40.09	S	O
ATOM	4369	OH2 TIP S 339	-11.491	79.098	22.692	1.00	31.58	S	O
ATOM	4370	OH2 TIP S 342	-3.605	77.350	56.479	1.00	33.40	S	O
ATOM	4371	OH2 TIP S 345	48.945	64.149	23.906	1.00	33.98	S	O
ATOM	4372	OH2 TIP S 348	17.597	50.879	59.000	1.00	46.70	S	O
ATOM	4373	OH2 TIP S 349	-19.548	99.216	33.850	1.00	31.30	S	O
ATOM	4374	OH2 TIP S 350	11.566	66.969	42.047	1.00	25.33	S	O
ATOM	4375	OH2 TIP S 353	24.674	43.379	42.738	1.00	46.49	S	O
ATOM	4376	OH2 TIP S 354	20.654	78.836	55.418	1.00	19.53	S	O
ATOM	4377	OH2 TIP S 357	17.254	91.782	60.031	1.00	23.92	S	O
ATOM	4378	OH2 TIP S 358	9.923	67.047	44.491	1.00	20.59	S	O
ATOM	4379	OH2 TIP S 359	36.952	66.998	45.661	1.00	21.28	S	O
ATOM	4380	OH2 TIP S 360	15.012	70.447	58.501	1.00	20.49	S	O
ATOM	4381	OH2 TIP S 361	38.560	66.828	47.799	1.00	18.16	S	O
ATOM	4382	OH2 TIP S 362	12.567	70.351	43.331	1.00	21.60	S	O
ATOM	4383	OH2 TIP S 363	10.275	70.909	59.173	1.00	20.25	S	O
ATOM	4384	OH2 TIP S 365	-8.636	80.604	29.420	1.00	20.84	S	O
ATOM	4385	OH2 TIP S 366	27.535	82.312	43.508	1.00	25.30	S	O
ATOM	4386	OH2 TIP S 367	17.257	86.397	26.338	1.00	29.08	S	O
ATOM	4387	OH2 TIP S 368	4.358	55.280	44.796	1.00	40.14	S	O
ATOM	4388	OH2 TIP S 369	8.463	83.561	21.334	1.00	22.41	S	O

Figure 4XXX

ATOM	4389	OH2 TIP S 370	-8.086	97.612	37.816	1.00	25.46	S	O
ATOM	4390	OH2 TIP S 371	12.843	74.928	39.116	1.00	31.70	S	O
ATOM	4391	OH2 TIP S 372	8.347	72.232	57.105	1.00	25.70	S	O
ATOM	4392	OH2 TIP S 373	-3.834	109.911	52.412	1.00	25.46	S	O
ATOM	4393	OH2 TIP S 374	38.734	67.042	43.751	1.00	25.21	S	O
ATOM	4394	OH2 TIP S 375	20.952	90.132	33.041	1.00	26.25	S	O
ATOM	4395	OH2 TIP S 376	21.122	98.404	49.083	1.00	21.33	S	O
ATOM	4396	OH2 TIP S 377	-12.795	97.771	42.948	1.00	27.19	S	O
ATOM	4397	OH2 TIP S 378	24.316	79.549	28.534	1.00	25.40	S	O
ATOM	4398	OH2 TIP S 379	27.736	88.375	45.434	1.00	29.24	S	O
ATOM	4399	OH2 TIP S 380	8.225	59.683	36.172	1.00	24.77	S	O
ATOM	4400	OH2 TIP S 381	37.450	53.227	35.003	1.00	32.48	S	O
ATOM	4401	OH2 TIP S 382	-10.586	84.900	22.199	1.00	30.47	S	O
ATOM	4402	OH2 TIP S 383	-15.137	95.854	40.707	1.00	25.76	S	O
ATOM	4403	OH2 TIP S 384	16.777	65.477	62.229	1.00	26.46	S	O
ATOM	4404	OH2 TIP S 385	28.839	86.168	50.617	1.00	33.26	S	O
ATOM	4405	OH2 TIP S 386	17.382	84.892	57.199	1.00	22.87	S	O
ATOM	4406	OH2 TIP S 387	27.000	52.190	62.926	1.00	27.15	S	O
ATOM	4407	OH2 TIP S 388	31.661	79.835	35.615	1.00	28.03	S	O
ATOM	4408	OH2 TIP S 389	-4.676	84.758	48.894	1.00	31.68	S	O
ATOM	4409	OH2 TIP S 390	-5.662	91.557	50.040	1.00	31.19	S	O
ATOM	4410	OH2 TIP S 391	23.487	83.965	44.473	1.00	28.65	S	O
ATOM	4411	OH2 TIP S 392	-6.441	88.875	58.175	1.00	33.33	S	O
ATOM	4412	OH2 TIP S 393	7.603	93.526	36.250	1.00	30.57	S	O
ATOM	4413	OH2 TIP S 394	49.203	72.825	26.301	1.00	24.46	S	O
ATOM	4414	OH2 TIP S 395	28.479	61.371	62.617	1.00	32.12	S	O
ATOM	4415	OH2 TIP S 397	-9.168	83.076	17.253	1.00	25.74	S	O
ATOM	4416	OH2 TIP S 398	16.075	88.965	63.990	1.00	30.49	S	O
ATOM	4417	OH2 TIP S 400	13.310	95.842	67.259	1.00	29.76	S	O
ATOM	4418	OH2 TIP S 401	5.918	66.938	33.592	1.00	31.14	S	O
ATOM	4419	OH2 TIP S 402	0.155	106.248	55.777	1.00	32.60	S	O
ATOM	4420	OH2 TIP S 403	6.110	92.248	62.655	1.00	27.95	S	O
ATOM	4421	OH2 TIP S 404	2.233	103.880	39.763	1.00	31.52	S	O
ATOM	4422	OH2 TIP S 405	25.694	98.715	48.972	1.00	29.93	S	O
ATOM	4423	OH2 TIP S 406	10.674	73.231	60.407	1.00	31.34	S	O
ATOM	4424	OH2 TIP S 409	51.882	66.157	29.120	1.00	26.96	S	O
ATOM	4425	OH2 TIP S 410	6.325	68.647	46.053	1.00	34.29	S	O
ATOM	4426	OH2 TIP S 412	39.391	64.285	54.825	1.00	28.64	S	O
ATOM	4427	OH2 TIP S 413	-2.620	73.079	47.858	1.00	31.55	S	O
ATOM	4428	OH2 TIP S 414	32.879	78.973	43.464	1.00	29.58	S	O
ATOM	4429	OH2 TIP S 415	-15.016	96.572	33.202	1.00	45.53	S	O
ATOM	4430	OH2 TIP S 416	39.377	75.743	32.551	1.00	30.17	S	O
ATOM	4431	OH2 TIP S 417	31.294	47.074	59.585	1.00	32.29	S	O
ATOM	4432	OH2 TIP S 418	20.908	99.085	60.072	1.00	33.84	S	O
ATOM	4433	OH2 TIP S 421	16.227	75.089	58.255	1.00	34.63	S	O
ATOM	4434	OH2 TIP S 423	9.515	68.766	41.162	1.00	31.09	S	O
ATOM	4435	OH2 TIP S 424	24.057	90.877	41.184	1.00	32.57	S	O
ATOM	4436	OH2 TIP S 425	-23.421	85.321	34.874	1.00	40.73	S	O
ATOM	4437	OH2 TIP S 426	-6.600	85.509	60.637	1.00	36.33	S	O
ATOM	4438	OH2 TIP S 429	18.068	74.274	39.152	1.00	28.30	S	O
ATOM	4439	OH2 TIP S 430	0.216	72.088	29.280	1.00	34.77	S	O
ATOM	4440	OH2 TIP S 431	24.237	97.970	52.510	1.00	40.38	S	O
ATOM	4441	OH2 TIP S 433	16.496	61.776	20.380	1.00	31.74	S	O
ATOM	4442	OH2 TIP S 434	23.656	81.140	23.402	1.00	39.14	S	O
ATOM	4443	OH2 TIP S 435	45.512	70.376	23.767	1.00	38.06	S	O
ATOM	4444	OH2 TIP S 436	5.133	69.622	42.446	1.00	33.04	S	O
ATOM	4445	OH2 TIP S 440	23.692	79.457	34.661	1.00	40.65	S	O
ATOM	4446	OH2 TIP S 443	15.889	73.328	39.832	1.00	29.37	S	O

Figure 4YYY

ATOM	4447	OH2 TIP S 444	-8.745	70.532	28.410	1.00	33.62	S	O
ATOM	4448	OH2 TIP S 446	32.260	78.506	13.999	1.00	45.13	S	O
ATOM	4449	OH2 TIP S 448	39.242	48.079	43.803	1.00	33.38	S	O
ATOM	4450	OH2 TIP S 449	34.559	75.768	22.405	1.00	31.84	S	O
ATOM	4451	OH2 TIP S 450	17.344	71.627	57.656	1.00	30.16	S	O
ATOM	4452	OH2 TIP S 453	17.850	55.704	64.074	1.00	41.95	S	O
ATOM	4453	OH2 TIP S 454	12.673	87.630	65.105	1.00	36.77	S	O
ATOM	4454	OH2 TIP S 455	18.393	73.689	58.998	1.00	35.69	S	O
ATOM	4455	OH2 TIP S 457	31.350	80.284	54.849	1.00	32.98	S	O
ATOM	4456	OH2 TIP S 459	31.948	64.117	63.134	1.00	33.16	S	O
ATOM	4457	OH2 TIP S 461	25.883	44.584	58.922	1.00	26.81	S	O
ATOM	4458	OH2 TIP S 462	15.411	75.744	38.970	1.00	38.18	S	O
ATOM	4459	OH2 TIP S 465	-6.694	85.996	51.462	1.00	39.03	S	O
ATOM	4460	OH2 TIP S 467	22.428	74.991	56.119	1.00	48.69	S	O
ATOM	4461	OH2 TIP S 472	7.409	68.343	43.765	1.00	40.63	S	O
ATOM	4462	OH2 TIP S 477	3.696	81.760	15.765	1.00	41.18	S	O
ATOM	4463	OH2 TIP S 478	36.353	75.696	51.865	1.00	40.40	S	O
ATOM	4464	OH2 TIP S 479	45.063	73.009	39.613	1.00	30.28	S	O
ATOM	4465	OH2 TIP S 480	35.167	68.155	64.949	1.00	36.43	S	O
ATOM	4466	OH2 TIP S 481	16.895	81.810	19.179	1.00	26.87	S	O
ATOM	4467	OH2 TIP S 482	9.338	64.581	19.670	1.00	47.45	S	O
ATOM	4468	OH2 TIP S 486	-4.142	97.143	32.076	1.00	40.89	S	O
ATOM	4469	OH2 TIP S 492	8.626	110.626	48.140	1.00	38.81	S	O
ATOM	4470	OH2 TIP S 493	10.344	52.396	54.552	1.00	40.72	S	O
ATOM	4471	OH2 TIP S 504	-6.927	90.936	52.736	1.00	32.58	S	O
ATOM	4472	OH2 TIP S 506	25.842	56.111	26.259	1.00	44.04	S	O
ATOM	4473	OH2 TIP S 511	-18.765	81.021	30.433	1.00	43.07	S	O
ATOM	4474	OH2 TIP S 514	-10.951	95.897	30.634	1.00	35.08	S	O
ATOM	4475	OH2 TIP S 515	18.239	91.555	29.988	1.00	35.01	S	O
ATOM	4476	OH2 TIP S 518	11.487	71.453	37.559	1.00	30.35	S	O
ATOM	4477	OH2 TIP S 519	-5.621	94.181	63.866	1.00	38.29	S	O
ATOM	4478	OH2 TIP S 522	-22.715	82.630	39.313	1.00	37.68	S	O
ATOM	4479	OH2 TIP S 523	13.832	92.634	28.634	1.00	42.35	S	O
ATOM	4480	OH2 TIP S 526	38.684	51.235	34.304	1.00	47.63	S	O
ATOM	4481	OH2 TIP S 528	36.575	81.337	36.652	1.00	30.20	S	O
ATOM	4482	OH2 TIP S 529	19.003	94.626	60.449	1.00	33.39	S	O
ATOM	4483	OH2 TIP S 532	45.213	64.758	44.484	1.00	43.40	S	O
ATOM	4484	OH2 TIP S 548	27.913	76.880	61.466	1.00	39.53	S	O
ATOM	4485	OH2 TIP S 550	-7.794	83.071	55.228	1.00	36.58	S	O
ATOM	4486	OH2 TIP S 551	6.856	87.791	20.410	1.00	45.36	S	O
ATOM	4487	OH2 TIP S 553	20.954	56.587	35.076	1.00	46.06	S	O
ATOM	4488	OH2 TIP S 559	6.709	95.476	37.577	1.00	37.67	S	O
ATOM	4489	OH2 TIP S 561	-5.111	70.585	43.095	1.00	36.29	S	O
ATOM	4490	OH2 TIP S 563	33.592	49.188	39.439	1.00	38.90	S	O
ATOM	4491	OH2 TIP S 567	24.268	93.456	38.866	1.00	41.73	S	O
ATOM	4492	OH2 TIP S 568	38.145	71.373	18.079	1.00	45.93	S	O
ATOM	4493	OH2 TIP S 570	10.042	104.897	57.893	1.00	35.94	S	O
ATOM	4494	OH2 TIP S 579	2.980	71.667	46.083	1.00	31.08	S	O
ATOM	4495	OH2 TIP S 588	42.992	48.494	46.292	1.00	42.53	S	O
ATOM	4496	OH2 TIP S 592	7.979	101.256	62.776	1.00	43.56	S	O
ATOM	4497	OH2 TIP S 596	40.729	51.604	40.374	1.00	44.86	S	O
ATOM	4498	OH2 TIP S 608	22.066	82.819	34.739	1.00	44.19	S	O
ATOM	4499	OH2 TIP S 612	23.253	56.890	32.646	1.00	37.91	S	O
ATOM	4500	OH2 TIP S 613	-4.126	71.281	39.257	1.00	40.53	S	O
ATOM	4501	OH2 TIP S 640	21.624	103.517	40.110	1.00	37.27	S	O
ATOM	4502	OH2 TIP S 648	5.614	70.703	52.258	1.00	52.65	S	O
ATOM	4503	OH2 TIP S 650	43.903	58.744	50.765	1.00	33.40	S	O
ATOM	4504	OH2 TIP S 655	-8.816	78.637	48.006	1.00	40.13	S	O

Figure 4ZZZ

ATOM	4505	OH2 TIP S 656	-5.358	78.170	23.376	1.00	32.77	S	O
ATOM	4506	OH2 TIP S 657	3.160	70.067	31.591	1.00	35.22	S	O
ATOM	4507	OH2 TIP S 658	25.185	73.553	62.291	1.00	39.81	S	O
END									

Figure 5A

REMARK Created by MOLEMAN V. 991230/7.3 at Tue Dec 10 19:34:52 2002 for kemiti
 REMARK MoleMan PDB file
 REMARK Created by MOLEMAN V. 961218/7.2.5 at Tue Mar 28 15:09:11 2000 for kemiti
 REMARK MoleMan PDB file
 REMARK coordinates from restrained individual B-factor refinement
 REMARK refinement resolution: 500.0 - 1.86 A
 REMARK starting r= 0.2208 free_r= 0.2457
 REMARK final r= 0.2055 free_r= 0.2376
 REMARK B rmsd for bonded mainchain atoms= 1.483 target= 1.5
 REMARK B rmsd for bonded sidechain atoms= 2.506 target= 2.0
 REMARK B rmsd for angle mainchain atoms= 2.042 target= 2.0
 REMARK B rmsd for angle sidechain atoms= 3.617 target= 2.5
 REMARK wa= 1.64705
 REMARK rweight=6.377507E-02
 REMARK target= mlf steps= 50
 REMARK sg= P2(1)2(1)2(1) a= 61.41 b= 76.31 c= 108.92 alpha= 90 beta= 90 gamma= 90
 REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
 REMARK parameter file 2 : MSI_CNX_TOPPAR:water_rep.param
 REMARK parameter file 3 : inh.par
 REMARK parameter file 4 : gld.par
 REMARK molecular structure file: generate_easy.psf
 REMARK input coordinates: bgroup.pdb
 REMARK reflection file= muri_1.8.cv
 REMARK ncs= none
 REMARK B-correction resolution: 6.0 - 1.86
 REMARK initial B-factor correction applied to fobs :
 REMARK B11= 0.497 B22= 1.667 B33= -2.164
 REMARK B12= 0.000 B13= 0.000 B23= 0.000
 REMARK B-factor correction applied to coordinate array B: 1.176
 REMARK bulk solvent: (Mask) density level= 0.365438 e/A³, B-factor= 33.2255 A²
 REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
 REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
 REMARK theoretical total number of refl. in resol. range: 43743 (100.0 %)
 REMARK number of unobserved reflections (no entry or |F|=0): 3410 (7.8 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 40333 (92.2 %)
 REMARK number of reflections in working set: 38313 (87.6 %)
 REMARK number of reflections in test set: 2020 (4.6 %)
 REMARK FILENAME="bindividual.pdb"
 REMARK DATE:Mar-24-2000 16:16:02 created by user: kemiti
 REMARK Written by CNX VERSION:2000
 CRYST1 61.410 76.310 108.920 90.00 90.00 P212121 1
 ORIGX1 1.000000 0.000000 0.000000 0.000000
 ORIGX2 0.000000 1.000000 0.000000 0.000000
 ORIGX3 0.000000 0.000000 1.000000 0.000000
 SCALE1 0.016284 0.000000 0.000000 0.000000
 SCALE2 0.000000 0.013104 0.000000 0.000000
 SCALE3 0.000000 0.000000 0.009181 0.000000
 ATOM 1 CB MET A 1 30.124 48.907 56.585 1.00 22.42 A C
 ATOM 2 CG MET A 1 30.702 50.302 56.333 1.00 25.22 A C
 ATOM 3 SD MET A 1 31.489 51.055 57.785 1.00 28.98 A S
 ATOM 4 CE MET A 1 32.951 49.983 58.010 1.00 26.14 A C
 ATOM 5 C MET A 1 27.890 49.690 57.412 1.00 19.35 A C
 ATOM 6 O MET A 1 27.114 49.386 56.503 1.00 20.53 A O
 ATOM 7 N MET A 1 28.658 47.421 57.925 1.00 18.28 A N
 ATOM 8 CA MET A 1 29.106 48.829 57.729 1.00 20.61 A C
 ATOM 9 N LYS A 2 27.729 50.760 58.178 1.00 18.84 A N
 ATOM 10 CA LYS A 2 26.605 51.666 58.005 1.00 19.29 A C

Figure 5B

ATOM	11	CB	LYS	A	2	25.834	51.769	59.316	1.00	18.82	A	C
ATOM	12	CG	LYS	A	2	24.636	52.702	59.295	1.00	20.09	A	C
ATOM	13	CD	LYS	A	2	24.005	52.752	60.674	1.00	22.85	A	C
ATOM	14	CE	LYS	A	2	22.697	53.523	60.676	1.00	22.98	A	C
ATOM	15	NZ	LYS	A	2	22.078	53.501	62.033	1.00	22.51	A	N
ATOM	16	C	LYS	A	2	27.131	53.031	57.588	1.00	17.25	A	C
ATOM	17	O	LYS	A	2	27.980	53.616	58.265	1.00	16.44	A	O
ATOM	18	N	ILE	A	3	26.630	53.533	56.464	1.00	17.70	A	N
ATOM	19	CA	ILE	A	3	27.075	54.824	55.968	1.00	14.65	A	C
ATOM	20	CB	ILE	A	3	28.001	54.647	54.738	1.00	16.82	A	C
ATOM	21	CG2	ILE	A	3	29.214	53.807	55.121	1.00	17.12	A	C
ATOM	22	CG1	ILE	A	3	27.252	53.971	53.593	1.00	17.27	A	C
ATOM	23	CD1	ILE	A	3	26.697	54.929	52.583	1.00	20.09	A	C
ATOM	24	C	ILE	A	3	25.925	55.758	55.617	1.00	14.64	A	C
ATOM	25	O	ILE	A	3	24.752	55.377	55.639	1.00	14.39	A	O
ATOM	26	N	GLY	A	4	26.269	57.001	55.322	1.00	13.89	A	N
ATOM	27	CA	GLY	A	4	25.244	57.956	54.961	1.00	14.96	A	C
ATOM	28	C	GLY	A	4	25.500	58.490	53.569	1.00	13.26	A	C
ATOM	29	O	GLY	A	4	26.634	58.453	53.081	1.00	11.89	A	O
ATOM	30	N	VAL	A	5	24.439	58.954	52.917	1.00	11.22	A	N
ATOM	31	CA	VAL	A	5	24.549	59.541	51.592	1.00	10.79	A	C
ATOM	32	CB	VAL	A	5	23.964	58.625	50.500	1.00	14.07	A	C
ATOM	33	CG1	VAL	A	5	23.918	59.363	49.169	1.00	12.77	A	C
ATOM	34	CG2	VAL	A	5	24.828	57.385	50.352	1.00	12.02	A	C
ATOM	35	C	VAL	A	5	23.771	60.848	51.643	1.00	11.63	A	C
ATOM	36	O	VAL	A	5	22.596	60.872	52.020	1.00	12.22	A	O
ATOM	37	N	PHE	A	6	24.445	61.932	51.287	1.00	11.51	A	N
ATOM	38	CA	PHE	A	6	23.848	63.256	51.302	1.00	13.29	A	C
ATOM	39	CB	PHE	A	6	24.674	64.182	52.203	1.00	13.43	A	C
ATOM	40	CG	PHE	A	6	24.252	65.620	52.143	1.00	14.85	A	C
ATOM	41	CD1	PHE	A	6	22.937	65.981	52.418	1.00	16.29	A	C
ATOM	42	CD2	PHE	A	6	25.164	66.612	51.800	1.00	15.26	A	C
ATOM	43	CE1	PHE	A	6	22.530	67.317	52.350	1.00	17.43	A	C
ATOM	44	CE2	PHE	A	6	24.770	67.954	51.728	1.00	17.55	A	C
ATOM	45	CZ	PHE	A	6	23.450	68.305	52.003	1.00	18.07	A	C
ATOM	46	C	PHE	A	6	23.725	63.887	49.920	1.00	12.87	A	C
ATOM	47	O	PHE	A	6	24.641	63.806	49.102	1.00	14.09	A	O
ATOM	48	N	ASP	A	7	22.583	64.519	49.674	1.00	11.45	A	N
ATOM	49	CA	ASP	A	7	22.331	65.212	48.418	1.00	12.53	A	C
ATOM	50	CB	ASP	A	7	21.749	64.263	47.363	1.00	11.52	A	C
ATOM	51	CG	ASP	A	7	21.491	64.959	46.035	1.00	10.71	A	C
ATOM	52	OD1	ASP	A	7	22.444	65.525	45.457	1.00	12.13	A	O
ATOM	53	OD2	ASP	A	7	20.332	64.944	45.571	1.00	11.62	A	O
ATOM	54	C	ASP	A	7	21.353	66.350	48.670	1.00	10.34	A	C
ATOM	55	O	ASP	A	7	20.714	66.410	49.716	1.00	12.06	A	O
ATOM	56	N	SER	A	8	21.245	67.262	47.713	1.00	12.07	A	N
ATOM	57	CA	SER	A	8	20.330	68.387	47.856	1.00	12.93	A	C
ATOM	58	CB	SER	A	8	20.595	69.417	46.756	1.00	12.10	A	C
ATOM	59	OG	SER	A	8	20.364	68.857	45.474	1.00	10.24	A	O
ATOM	60	C	SER	A	8	18.874	67.909	47.783	1.00	13.34	A	C
ATOM	61	O	SER	A	8	17.957	68.609	48.217	1.00	14.16	A	O
ATOM	62	N	GLY	A	9	18.667	66.709	47.250	1.00	13.06	A	N
ATOM	63	CA	GLY	A	9	17.319	66.182	47.143	1.00	12.56	A	C
ATOM	64	C	GLY	A	9	17.253	64.728	46.721	1.00	13.45	A	C
ATOM	65	O	GLY	A	9	17.886	63.861	47.329	1.00	13.56	A	O
ATOM	66	N	VAL	A	10	16.484	64.460	45.671	1.00	12.87	A	N
ATOM	67	CA	VAL	A	10	16.323	63.104	45.159	1.00	12.62	A	C
ATOM	68	CB	VAL	A	10	14.916	62.935	44.552	1.00	12.47	A	C

Figure 5C

ATOM	69	CG1 VAL A 10	14.715	63.955	43.453	1.00	11.29	A	C
ATOM	70	CG2 VAL A 10	14.720	61.521	44.031	1.00	12.71	A	C
ATOM	71	C VAL A 10	17.372	62.785	44.095	1.00	12.55	A	C
ATOM	72	O VAL A 10	17.586	61.624	43.749	1.00	11.19	A	O
ATOM	73	N GLY A 11	18.020	63.823	43.575	1.00	12.78	A	N
ATOM	74	CA GLY A 11	19.032	63.623	42.548	1.00	10.57	A	C
ATOM	75	C GLY A 11	20.039	62.536	42.884	1.00	12.63	A	C
ATOM	76	O GLY A 11	20.376	61.696	42.035	1.00	12.33	A	O
ATOM	77	N GLY A 12	20.514	62.560	44.126	1.00	12.27	A	N
ATOM	78	CA GLY A 12	21.488	61.589	44.597	1.00	13.34	A	C
ATOM	79	C GLY A 12	21.125	60.142	44.331	1.00	12.55	A	C
ATOM	80	O GLY A 12	21.963	59.252	44.496	1.00	12.07	A	O
ATOM	81	N PHE A 13	19.877	59.894	43.938	1.00	11.81	A	N
ATOM	82	CA PHE A 13	19.447	58.534	43.619	1.00	12.39	A	C
ATOM	83	CB PHE A 13	18.009	58.515	43.081	1.00	13.67	A	C
ATOM	84	CG PHE A 13	16.947	58.401	44.148	1.00	13.33	A	C
ATOM	85	CD1 PHE A 13	15.671	57.955	43.816	1.00	14.75	A	C
ATOM	86	CD2 PHE A 13	17.215	58.740	45.470	1.00	13.91	A	C
ATOM	87	CE1 PHE A 13	14.667	57.846	44.790	1.00	18.10	A	C
ATOM	88	CE2 PHE A 13	16.221	58.635	46.454	1.00	15.28	A	C
ATOM	89	CZ PHE A 13	14.943	58.186	46.112	1.00	13.91	A	C
ATOM	90	C PHE A 13	20.361	57.940	42.547	1.00	13.92	A	C
ATOM	91	O PHE A 13	20.630	56.737	42.551	1.00	12.12	A	O
ATOM	92	N SER A 14	20.827	58.781	41.625	1.00	13.26	A	N
ATOM	93	CA SER A 14	21.690	58.304	40.547	1.00	13.42	A	C
ATOM	94	CB SER A 14	21.967	59.423	39.525	1.00	13.96	A	C
ATOM	95	OG SER A 14	22.695	60.504	40.071	1.00	12.20	A	O
ATOM	96	C SER A 14	22.992	57.730	41.092	1.00	13.28	A	C
ATOM	97	O SER A 14	23.559	56.805	40.509	1.00	14.54	A	O
ATOM	98	N VAL A 15	23.458	58.270	42.214	1.00	10.88	A	N
ATOM	99	CA VAL A 15	24.674	57.777	42.846	1.00	11.83	A	C
ATOM	100	CB VAL A 15	25.338	58.859	43.730	1.00	11.43	A	C
ATOM	101	CG1 VAL A 15	26.452	58.243	44.580	1.00	10.44	A	C
ATOM	102	CG2 VAL A 15	25.909	59.960	42.849	1.00	11.65	A	C
ATOM	103	C VAL A 15	24.333	56.566	43.709	1.00	13.82	A	C
ATOM	104	O VAL A 15	25.068	55.579	43.727	1.00	13.72	A	O
ATOM	105	N LEU A 16	23.199	56.635	44.400	1.00	13.39	A	N
ATOM	106	CA LEU A 16	22.767	55.546	45.264	1.00	14.00	A	C
ATOM	107	CB LEU A 16	21.479	55.937	45.993	1.00	11.47	A	C
ATOM	108	CG LEU A 16	20.947	54.898	46.991	1.00	14.59	A	C
ATOM	109	CD1 LEU A 16	22.049	54.511	47.980	1.00	13.56	A	C
ATOM	110	CD2 LEU A 16	19.743	55.477	47.733	1.00	10.24	A	C
ATOM	111	C LEU A 16	22.562	54.246	44.486	1.00	14.34	A	C
ATOM	112	O LEU A 16	22.879	53.162	44.980	1.00	13.30	A	O
ATOM	113	N LYS A 17	22.044	54.356	43.267	1.00	14.05	A	N
ATOM	114	CA LYS A 17	21.822	53.176	42.438	1.00	16.52	A	C
ATOM	115	CB LYS A 17	21.229	53.584	41.087	1.00	16.99	A	C
ATOM	116	CG LYS A 17	21.051	52.424	40.114	1.00	21.73	A	C
ATOM	117	CD LYS A 17	20.461	52.893	38.802	1.00	24.05	A	C
ATOM	118	CE LYS A 17	20.298	51.729	37.833	1.00	27.52	A	C
ATOM	119	NZ LYS A 17	19.805	52.178	36.505	1.00	24.97	A	N
ATOM	120	C LYS A 17	23.136	52.423	42.220	1.00	17.90	A	C
ATOM	121	O LYS A 17	23.194	51.193	42.319	1.00	16.07	A	O
ATOM	122	N SER A 18	24.193	53.171	41.931	1.00	16.04	A	N
ATOM	123	CA SER A 18	25.508	52.582	41.691	1.00	17.22	A	C
ATOM	124	CB SER A 18	26.494	53.663	41.248	1.00	16.33	A	C
ATOM	125	OG SER A 18	26.080	54.255	40.034	1.00	15.13	A	O
ATOM	126	C SER A 18	26.033	51.900	42.944	1.00	16.33	A	C

Figure 5D

ATOM	127	O	SER A 18	26.579	50.795	42.885	1.00	14.32	A	O
ATOM	128	N	LEU A 19	25.863	52.577	44.075	1.00	13.38	A	N
ATOM	129	CA	LEU A 19	26.301	52.072	45.367	1.00	14.03	A	C
ATOM	130	CB	LEU A 19	26.009	53.102	46.456	1.00	11.70	A	C
ATOM	131	CG	LEU A 19	26.748	54.435	46.350	1.00	12.66	A	C
ATOM	132	CD1	LEU A 19	26.284	55.365	47.471	1.00	13.24	A	C
ATOM	133	CD2	LEU A 19	28.248	54.185	46.442	1.00	11.34	A	C
ATOM	134	C	LEU A 19	25.605	50.771	45.720	1.00	15.80	A	C
ATOM	135	O	LEU A 19	26.240	49.831	46.195	1.00	14.57	A	O
ATOM	136	N	LEU A 20	24.294	50.727	45.496	1.00	15.82	A	N
ATOM	137	CA	LEU A 20	23.510	49.540	45.793	1.00	18.19	A	C
ATOM	138	CB	LEU A 20	22.026	49.807	45.515	1.00	16.40	A	C
ATOM	139	CG	LEU A 20	21.346	50.798	46.473	1.00	16.62	A	C
ATOM	140	CD1	LEU A 20	19.949	51.156	45.974	1.00	16.53	A	C
ATOM	141	CD2	LEU A 20	21.279	50.176	47.867	1.00	16.65	A	C
ATOM	142	C	LEU A 20	23.983	48.330	44.988	1.00	20.92	A	C
ATOM	143	O	LEU A 20	24.179	47.247	45.538	1.00	20.94	A	O
ATOM	144	N	LYS A 21	24.169	48.511	43.687	1.00	20.60	A	N
ATOM	145	CA	LYS A 21	24.612	47.406	42.847	1.00	22.68	A	C
ATOM	146	CB	LYS A 21	24.656	47.840	41.380	1.00	21.65	A	C
ATOM	147	CG	LYS A 21	24.973	46.699	40.426	1.00	26.15	A	C
ATOM	148	CD	LYS A 21	25.083	47.169	38.988	1.00	29.67	A	C
ATOM	149	CE	LYS A 21	25.506	46.017	38.078	1.00	34.31	A	C
ATOM	150	NZ	LYS A 21	25.776	46.469	36.684	1.00	32.80	A	N
ATOM	151	C	LYS A 21	25.978	46.863	43.263	1.00	21.58	A	C
ATOM	152	O	LYS A 21	26.214	45.654	43.208	1.00	23.12	A	O
ATOM	153	N	ALA A 22	26.868	47.753	43.692	1.00	19.68	A	N
ATOM	154	CA	ALA A 22	28.216	47.360	44.093	1.00	19.96	A	C
ATOM	155	CB	ALA A 22	29.131	48.585	44.080	1.00	14.81	A	C
ATOM	156	C	ALA A 22	28.317	46.635	45.446	1.00	20.35	A	C
ATOM	157	O	ALA A 22	29.402	46.199	45.839	1.00	21.92	A	O
ATOM	158	N	ARG A 23	27.198	46.509	46.154	1.00	20.50	A	N
ATOM	159	CA	ARG A 23	27.187	45.821	47.444	1.00	21.19	A	C
ATOM	160	CB	ARG A 23	27.205	44.307	47.230	1.00	23.64	A	C
ATOM	161	CG	ARG A 23	25.965	43.756	46.553	1.00	24.47	A	C
ATOM	162	CD	ARG A 23	26.093	42.252	46.372	1.00	30.28	A	C
ATOM	163	NE	ARG A 23	26.418	41.582	47.630	1.00	30.56	A	N
ATOM	164	CZ	ARG A 23	26.768	40.302	47.727	1.00	32.70	A	C
ATOM	165	NH1	ARG A 23	26.838	39.549	46.636	1.00	32.50	A	N
ATOM	166	NH2	ARG A 23	27.054	39.776	48.914	1.00	28.66	A	N
ATOM	167	C	ARG A 23	28.379	46.216	48.302	1.00	21.73	A	C
ATOM	168	O	ARG A 23	29.149	45.365	48.759	1.00	20.27	A	O
ATOM	169	N	LEU A 24	28.522	47.512	48.527	1.00	17.52	A	N
ATOM	170	CA	LEU A 24	29.624	48.018	49.317	1.00	21.03	A	C
ATOM	171	CB	LEU A 24	30.080	49.366	48.757	1.00	20.25	A	C
ATOM	172	CG	LEU A 24	30.478	49.366	47.282	1.00	22.97	A	C
ATOM	173	CD1	LEU A 24	30.723	50.797	46.810	1.00	22.12	A	C
ATOM	174	CD2	LEU A 24	31.723	48.510	47.094	1.00	21.35	A	C
ATOM	175	C	LEU A 24	29.239	48.184	50.776	1.00	21.90	A	C
ATOM	176	O	LEU A 24	30.079	48.032	51.663	1.00	23.97	A	O
ATOM	177	N	PHE A 25	27.968	48.483	51.028	1.00	20.73	A	N
ATOM	178	CA	PHE A 25	27.517	48.710	52.396	1.00	21.16	A	C
ATOM	179	CB	PHE A 25	27.290	50.207	52.609	1.00	19.75	A	C
ATOM	180	CG	PHE A 25	28.416	51.062	52.101	1.00	19.70	A	C
ATOM	181	CD1	PHE A 25	28.249	51.854	50.967	1.00	20.65	A	C
ATOM	182	CD2	PHE A 25	29.648	51.065	52.748	1.00	19.59	A	C
ATOM	183	CE1	PHE A 25	29.294	52.641	50.483	1.00	20.02	A	C
ATOM	184	CE2	PHE A 25	30.701	51.846	52.276	1.00	20.92	A	C

Figure 5E

ATOM	185	CZ	PHE	A	25	30.522	52.639	51.137	1.00	19.72	A	C
ATOM	186	C	PHE	A	25	26.259	47.940	52.773	1.00	18.19	A	C
ATOM	187	O	PHE	A	25	25.387	47.718	51.945	1.00	20.08	A	O
ATOM	188	N	ASP	A	26	26.174	47.562	54.044	1.00	19.15	A	N
ATOM	189	CA	ASP	A	26	25.049	46.793	54.569	1.00	19.40	A	C
ATOM	190	CB	ASP	A	26	25.524	45.978	55.768	1.00	21.39	A	C
ATOM	191	CG	ASP	A	26	26.764	45.166	55.455	1.00	23.64	A	C
ATOM	192	OD1	ASP	A	26	26.632	44.118	54.794	1.00	23.32	A	O
ATOM	193	OD2	ASP	A	26	27.875	45.587	55.852	1.00	28.55	A	O
ATOM	194	C	ASP	A	26	23.864	47.662	54.978	1.00	18.82	A	C
ATOM	195	O	ASP	A	26	22.727	47.196	55.034	1.00	19.35	A	O
ATOM	196	N	GLU	A	27	24.132	48.926	55.273	1.00	17.90	A	N
ATOM	197	CA	GLU	A	27	23.067	49.840	55.671	1.00	17.07	A	C
ATOM	198	CB	GLU	A	27	22.892	49.826	57.187	1.00	17.71	A	C
ATOM	199	CG	GLU	A	27	21.646	50.550	57.663	1.00	24.75	A	C
ATOM	200	CD	GLU	A	27	21.322	50.279	59.127	1.00	28.18	A	C
ATOM	201	OE1	GLU	A	27	20.326	50.846	59.620	1.00	31.23	A	O
ATOM	202	OE2	GLU	A	27	22.054	49.500	59.782	1.00	27.47	A	O
ATOM	203	C	GLU	A	27	23.393	51.246	55.197	1.00	16.15	A	C
ATOM	204	O	GLU	A	27	24.524	51.723	55.346	1.00	14.85	A	O
ATOM	205	N	ILE	A	28	22.393	51.910	54.633	1.00	14.40	A	N
ATOM	206	CA	ILE	A	28	22.577	53.257	54.118	1.00	12.75	A	C
ATOM	207	CB	ILE	A	28	22.574	53.257	52.582	1.00	13.36	A	C
ATOM	208	CG2	ILE	A	28	22.678	54.689	52.056	1.00	9.46	A	C
ATOM	209	CG1	ILE	A	28	23.736	52.409	52.059	1.00	12.29	A	C
ATOM	210	CD1	ILE	A	28	23.699	52.211	50.552	1.00	16.70	A	C
ATOM	211	C	ILE	A	28	21.477	54.193	54.592	1.00	13.60	A	C
ATOM	212	O	ILE	A	28	20.296	53.854	54.545	1.00	13.62	A	O
ATOM	213	N	ILE	A	29	21.879	55.367	55.059	1.00	12.74	A	N
ATOM	214	CA	ILE	A	29	20.928	56.375	55.507	1.00	14.14	A	C
ATOM	215	CB	ILE	A	29	21.293	56.944	56.893	1.00	13.73	A	C
ATOM	216	CG2	ILE	A	29	20.241	57.957	57.324	1.00	15.30	A	C
ATOM	217	CG1	ILE	A	29	21.398	55.814	57.929	1.00	15.05	A	C
ATOM	218	CD1	ILE	A	29	20.107	55.035	58.145	1.00	14.22	A	C
ATOM	219	C	ILE	A	29	21.039	57.489	54.472	1.00	14.66	A	C
ATOM	220	O	ILE	A	29	22.056	58.183	54.404	1.00	13.06	A	O
ATOM	221	N	TYR	A	30	20.007	57.629	53.648	1.00	12.88	A	N
ATOM	222	CA	TYR	A	30	19.987	58.649	52.609	1.00	14.23	A	C
ATOM	223	CB	TYR	A	30	19.221	58.133	51.389	1.00	12.46	A	C
ATOM	224	CG	TYR	A	30	19.221	59.075	50.205	1.00	15.02	A	C
ATOM	225	CD1	TYR	A	30	20.155	58.933	49.178	1.00	12.86	A	C
ATOM	226	CE1	TYR	A	30	20.171	59.803	48.088	1.00	12.85	A	C
ATOM	227	CD2	TYR	A	30	18.298	60.119	50.117	1.00	15.96	A	C
ATOM	228	CE2	TYR	A	30	18.304	60.996	49.034	1.00	15.05	A	C
ATOM	229	CZ	TYR	A	30	19.243	60.831	48.023	1.00	14.12	A	C
ATOM	230	OH	TYR	A	30	19.248	61.681	46.948	1.00	11.65	A	O
ATOM	231	C	TYR	A	30	19.293	59.902	53.139	1.00	15.46	A	C
ATOM	232	O	TYR	A	30	18.211	59.815	53.725	1.00	14.07	A	O
ATOM	233	N	TYR	A	31	19.909	61.062	52.934	1.00	14.03	A	N
ATOM	234	CA	TYR	A	31	19.297	62.312	53.370	1.00	14.37	A	C
ATOM	235	CB	TYR	A	31	20.007	62.882	54.601	1.00	13.42	A	C
ATOM	236	CG	TYR	A	31	19.441	64.216	55.045	1.00	13.73	A	C
ATOM	237	CD1	TYR	A	31	18.150	64.307	55.559	1.00	15.42	A	C
ATOM	238	CE1	TYR	A	31	17.616	65.532	55.962	1.00	18.80	A	C
ATOM	239	CD2	TYR	A	31	20.191	65.389	54.940	1.00	15.22	A	C
ATOM	240	CE2	TYR	A	31	19.665	66.625	55.335	1.00	19.27	A	C
ATOM	241	CZ	TYR	A	31	18.376	66.686	55.847	1.00	20.56	A	C
ATOM	242	OH	TYR	A	31	17.840	67.894	56.250	1.00	21.50	A	O

Figure 5F

ATOM	243	C	TYR A 31	19.321	63.355	52.257	1.00	13.94	A	C
ATOM	244	O	TYR A 31	20.383	63.704	51.743	1.00	12.53	A	O
ATOM	245	N	GLY A 32	18.139	63.836	51.876	1.00	14.52	A	N
ATOM	246	CA	GLY A 32	18.052	64.855	50.846	1.00	11.09	A	C
ATOM	247	C	GLY A 32	17.502	66.137	51.445	1.00	14.21	A	C
ATOM	248	O	GLY A 32	16.474	66.105	52.120	1.00	13.16	A	O
ATOM	249	N	ASP A 33	18.178	67.261	51.217	1.00	11.82	A	N
ATOM	250	CA	ASP A 33	17.728	68.550	51.754	1.00	12.90	A	C
ATOM	251	CB	ASP A 33	18.934	69.474	51.926	1.00	11.25	A	C
ATOM	252	CG	ASP A 33	18.576	70.788	52.587	1.00	11.81	A	C
ATOM	253	OD1	ASP A 33	17.562	70.842	53.309	1.00	14.26	A	O
ATOM	254	OD2	ASP A 33	19.326	71.757	52.394	1.00	11.68	A	O
ATOM	255	C	ASP A 33	16.703	69.145	50.783	1.00	13.65	A	C
ATOM	256	O	ASP A 33	16.824	70.285	50.324	1.00	12.95	A	O
ATOM	257	N	SER A 34	15.693	68.333	50.486	1.00	13.72	A	N
ATOM	258	CA	SER A 34	14.630	68.658	49.543	1.00	14.78	A	C
ATOM	259	CB	SER A 34	13.602	67.527	49.539	1.00	13.92	A	C
ATOM	260	OG	SER A 34	14.230	66.294	49.232	1.00	21.22	A	O
ATOM	261	C	SER A 34	13.914	69.980	49.751	1.00	16.62	A	C
ATOM	262	O	SER A 34	13.379	70.554	48.799	1.00	14.31	A	O
ATOM	263	N	ALA A 35	13.889	70.461	50.990	1.00	13.83	A	N
ATOM	264	CA	ALA A 35	13.216	71.717	51.282	1.00	14.72	A	C
ATOM	265	CB	ALA A 35	13.037	71.875	52.790	1.00	12.61	A	C
ATOM	266	C	ALA A 35	13.982	72.908	50.717	1.00	15.06	A	C
ATOM	267	O	ALA A 35	13.417	73.989	50.538	1.00	17.76	A	O
ATOM	268	N	ARG A 36	15.262	72.713	50.420	1.00	15.20	A	N
ATOM	269	CA	ARG A 36	16.076	73.804	49.902	1.00	15.09	A	C
ATOM	270	CB	ARG A 36	17.175	74.128	50.918	1.00	14.65	A	C
ATOM	271	CG	ARG A 36	16.585	74.462	52.284	1.00	13.95	A	C
ATOM	272	CD	ARG A 36	17.602	75.018	53.255	1.00	15.98	A	C
ATOM	273	NE	ARG A 36	18.579	74.020	53.681	1.00	14.55	A	N
ATOM	274	CZ	ARG A 36	19.333	74.141	54.769	1.00	19.35	A	C
ATOM	275	NH1	ARG A 36	19.217	75.221	55.537	1.00	16.64	A	N
ATOM	276	NH2	ARG A 36	20.201	73.187	55.093	1.00	16.02	A	N
ATOM	277	C	ARG A 36	16.668	73.578	48.511	1.00	15.81	A	C
ATOM	278	O	ARG A 36	17.422	74.409	48.002	1.00	15.67	A	O
ATOM	279	N	VAL A 37	16.319	72.461	47.888	1.00	15.48	A	N
ATOM	280	CA	VAL A 37	16.821	72.168	46.552	1.00	13.76	A	C
ATOM	281	CB	VAL A 37	16.374	70.746	46.115	1.00	14.93	A	C
ATOM	282	CG1	VAL A 37	14.877	70.727	45.851	1.00	14.99	A	C
ATOM	283	CG2	VAL A 37	17.174	70.280	44.898	1.00	14.00	A	C
ATOM	284	C	VAL A 37	16.246	73.243	45.617	1.00	11.66	A	C
ATOM	285	O	VAL A 37	15.112	73.697	45.805	1.00	11.22	A	O
ATOM	286	N	PRO A 38	17.011	73.662	44.596	1.00	12.05	A	N
ATOM	287	CD	PRO A 38	16.485	74.565	43.553	1.00	12.17	A	C
ATOM	288	CA	PRO A 38	18.356	73.214	44.244	1.00	13.67	A	C
ATOM	289	CB	PRO A 38	18.368	73.384	42.736	1.00	14.66	A	C
ATOM	290	CG	PRO A 38	17.655	74.698	42.588	1.00	12.08	A	C
ATOM	291	C	PRO A 38	19.486	74.000	44.898	1.00	15.15	A	C
ATOM	292	O	PRO A 38	19.297	75.129	45.370	1.00	12.96	A	O
ATOM	293	N	TYR A 39	20.664	73.382	44.900	1.00	11.07	A	N
ATOM	294	CA	TYR A 39	21.885	73.974	45.442	1.00	13.74	A	C
ATOM	295	CB	TYR A 39	22.796	72.893	46.040	1.00	11.65	A	C
ATOM	296	CG	TYR A 39	22.461	72.394	47.428	1.00	12.17	A	C
ATOM	297	CD1	TYR A 39	21.229	72.663	48.031	1.00	13.42	A	C
ATOM	298	CE1	TYR A 39	20.932	72.177	49.312	1.00	12.82	A	C
ATOM	299	CD2	TYR A 39	23.387	71.625	48.137	1.00	14.92	A	C
ATOM	300	CE2	TYR A 39	23.103	71.137	49.406	1.00	15.33	A	C

Figure 5G

ATOM	301	CZ TYR A 39	21.878	71.414	49.992	1.00	13.34	A	C
ATOM	302	OH TYR A 39	21.624	70.941	51.260	1.00	13.24	A	O
ATOM	303	C TYR A 39	22.654	74.640	44.300	1.00	11.74	A	C
ATOM	304	O TYR A 39	23.323	75.652	44.494	1.00	14.92	A	O
ATOM	305	N GLY A 40	22.551	74.049	43.112	1.00	14.63	A	N
ATOM	306	CA GLY A 40	23.269	74.529	41.939	1.00	12.47	A	C
ATOM	307	C GLY A 40	23.196	75.993	41.544	1.00	14.09	A	C
ATOM	308	O GLY A 40	24.093	76.502	40.871	1.00	12.63	A	O
ATOM	309	N THR A 41	22.141	76.683	41.952	1.00	13.06	A	N
ATOM	310	CA THR A 41	22.001	78.086	41.585	1.00	17.35	A	C
ATOM	311	CB THR A 41	20.552	78.400	41.219	1.00	18.12	A	C
ATOM	312	OG1 THR A 41	19.713	78.078	42.332	1.00	22.00	A	O
ATOM	313	CG2 THR A 41	20.115	77.580	40.009	1.00	22.83	A	C
ATOM	314	C THR A 41	22.416	79.020	42.712	1.00	16.33	A	C
ATOM	315	O THR A 41	22.266	80.240	42.600	1.00	17.71	A	O
ATOM	316	N LYS A 42	22.953	78.460	43.787	1.00	14.75	A	N
ATOM	317	CA LYS A 42	23.331	79.281	44.922	1.00	13.75	A	C
ATOM	318	CB LYS A 42	22.653	78.721	46.174	1.00	14.86	A	C
ATOM	319	CG LYS A 42	21.139	78.899	46.078	1.00	14.53	A	C
ATOM	320	CD LYS A 42	20.342	77.857	46.842	1.00	14.88	A	C
ATOM	321	CE LYS A 42	18.898	77.878	46.349	1.00	13.95	A	C
ATOM	322	NZ LYS A 42	17.995	76.929	47.073	1.00	12.60	A	N
ATOM	323	C LYS A 42	24.824	79.496	45.119	1.00	16.57	A	C
ATOM	324	O LYS A 42	25.647	78.943	44.391	1.00	14.82	A	O
ATOM	325	N ASP A 43	25.157	80.329	46.099	1.00	17.21	A	N
ATOM	326	CA ASP A 43	26.539	80.689	46.390	1.00	19.06	A	C
ATOM	327	CB ASP A 43	26.567	82.117	46.932	1.00	20.48	A	C
ATOM	328	CG ASP A 43	25.808	82.245	48.228	1.00	21.34	A	C
ATOM	329	OD1 ASP A 43	26.458	82.356	49.287	1.00	19.30	A	O
ATOM	330	OD2 ASP A 43	24.557	82.210	48.190	1.00	23.52	A	O
ATOM	331	C ASP A 43	27.260	79.763	47.371	1.00	19.43	A	C
ATOM	332	O ASP A 43	26.634	79.034	48.141	1.00	18.30	A	O
ATOM	333	N PRO A 44	28.604	79.789	47.346	1.00	21.23	A	N
ATOM	334	CD PRO A 44	29.401	80.567	46.377	1.00	20.65	A	C
ATOM	335	CA PRO A 44	29.482	78.984	48.202	1.00	20.54	A	C
ATOM	336	CB PRO A 44	30.866	79.543	47.886	1.00	20.91	A	C
ATOM	337	CG PRO A 44	30.749	79.881	46.440	1.00	20.03	A	C
ATOM	338	C PRO A 44	29.165	79.051	49.691	1.00	21.08	A	C
ATOM	339	O PRO A 44	29.078	78.020	50.362	1.00	22.03	A	O
ATOM	340	N THR A 45	28.999	80.266	50.207	1.00	20.06	A	N
ATOM	341	CA THR A 45	28.707	80.453	51.622	1.00	19.83	A	C
ATOM	342	CB THR A 45	28.523	81.953	51.961	1.00	22.19	A	C
ATOM	343	OG1 THR A 45	29.734	82.659	51.667	1.00	22.93	A	O
ATOM	344	CG2 THR A 45	28.180	82.135	53.429	1.00	21.29	A	C
ATOM	345	C THR A 45	27.453	79.697	52.027	1.00	18.90	A	C
ATOM	346	O THR A 45	27.448	78.950	53.007	1.00	16.82	A	O
ATOM	347	N THR A 46	26.386	79.893	51.263	1.00	17.42	A	N
ATOM	348	CA THR A 46	25.125	79.235	51.546	1.00	17.81	A	C
ATOM	349	CB THR A 46	24.039	79.671	50.542	1.00	16.98	A	C
ATOM	350	OG1 THR A 46	23.835	81.087	50.636	1.00	17.53	A	O
ATOM	351	CG2 THR A 46	22.737	78.971	50.839	1.00	19.05	A	C
ATOM	352	C THR A 46	25.265	77.719	51.484	1.00	17.51	A	C
ATOM	353	O THR A 46	24.766	77.004	52.355	1.00	18.78	A	O
ATOM	354	N ILE A 47	25.945	77.236	50.452	1.00	17.91	A	N
ATOM	355	CA ILE A 47	26.134	75.803	50.265	1.00	20.81	A	C
ATOM	356	CB ILE A 47	26.822	75.513	48.912	1.00	20.52	A	C
ATOM	357	CG2 ILE A 47	26.934	74.002	48.678	1.00	18.34	A	C
ATOM	358	CG1 ILE A 47	26.004	76.143	47.783	1.00	23.35	A	C

Figure 5H

ATOM	359	CD1 ILE A 47	24.523	75.792	47.826	1.00	23.82	A	C
ATOM	360	C ILE A 47	26.935	75.170	51.398	1.00	19.27	A	C
ATOM	361	O ILE A 47	26.568	74.111	51.905	1.00	21.96	A	O
ATOM	362	N LYS A 48	28.018	75.818	51.805	1.00	21.30	A	N
ATOM	363	CA LYS A 48	28.834	75.292	52.890	1.00	20.85	A	C
ATOM	364	CB LYS A 48	30.032	76.203	53.151	1.00	22.83	A	C
ATOM	365	CG LYS A 48	31.094	76.059	52.091	1.00	27.64	A	C
ATOM	366	CD LYS A 48	32.380	76.794	52.444	1.00	31.38	A	C
ATOM	367	CE LYS A 48	32.246	78.287	52.245	1.00	32.58	A	C
ATOM	368	NZ LYS A 48	33.567	78.966	52.404	1.00	35.58	A	N
ATOM	369	C LYS A 48	28.029	75.101	54.163	1.00	21.38	A	C
ATOM	370	O LYS A 48	28.141	74.061	54.814	1.00	20.76	A	O
ATOM	371	N GLN A 49	27.211	76.091	54.520	1.00	19.20	A	N
ATOM	372	CA GLN A 49	26.395	75.963	55.716	1.00	19.40	A	C
ATOM	373	CB GLN A 49	25.619	77.256	56.005	1.00	19.30	A	C
ATOM	374	CG GLN A 49	24.776	77.203	57.286	1.00	22.44	A	C
ATOM	375	CD GLN A 49	25.581	76.812	58.525	1.00	20.73	A	C
ATOM	376	OE1 GLN A 49	26.740	77.192	58.667	1.00	22.79	A	O
ATOM	377	NE2 GLN A 49	24.958	76.068	59.433	1.00	22.60	A	N
ATOM	378	C GLN A 49	25.423	74.803	55.553	1.00	18.14	A	C
ATOM	379	O GLN A 49	25.159	74.074	56.510	1.00	19.87	A	O
ATOM	380	N PHE A 50	24.882	74.631	54.348	1.00	17.65	A	N
ATOM	381	CA PHE A 50	23.960	73.521	54.112	1.00	17.56	A	C
ATOM	382	CB PHE A 50	23.461	73.510	52.659	1.00	17.20	A	C
ATOM	383	CG PHE A 50	22.478	74.604	52.331	1.00	18.53	A	C
ATOM	384	CD1 PHE A 50	21.961	75.433	53.323	1.00	18.95	A	C
ATOM	385	CD2 PHE A 50	22.041	74.780	51.022	1.00	20.21	A	C
ATOM	386	CE1 PHE A 50	21.023	76.418	53.022	1.00	19.32	A	C
ATOM	387	CE2 PHE A 50	21.101	75.763	50.709	1.00	22.48	A	C
ATOM	388	CZ PHE A 50	20.592	76.583	51.716	1.00	21.15	A	C
ATOM	389	C PHE A 50	24.706	72.217	54.401	1.00	15.70	A	C
ATOM	390	O PHE A 50	24.178	71.311	55.048	1.00	15.38	A	O
ATOM	391	N GLY A 51	25.945	72.143	53.922	1.00	18.19	A	N
ATOM	392	CA GLY A 51	26.760	70.959	54.126	1.00	19.41	A	C
ATOM	393	C GLY A 51	27.006	70.667	55.592	1.00	20.96	A	C
ATOM	394	O GLY A 51	26.964	69.514	56.026	1.00	20.04	A	O
ATOM	395	N LEU A 52	27.261	71.716	56.368	1.00	22.33	A	N
ATOM	396	CA LEU A 52	27.508	71.542	57.791	1.00	22.23	A	C
ATOM	397	CB LEU A 52	27.995	72.855	58.412	1.00	24.46	A	C
ATOM	398	CG LEU A 52	29.385	73.328	57.980	1.00	25.92	A	C
ATOM	399	CD1 LEU A 52	29.734	74.618	58.719	1.00	28.98	A	C
ATOM	400	CD2 LEU A 52	30.423	72.249	58.293	1.00	27.40	A	C
ATOM	401	C LEU A 52	26.246	71.063	58.493	1.00	21.84	A	C
ATOM	402	O LEU A 52	26.294	70.180	59.344	1.00	21.12	A	O
ATOM	403	N GLU A 53	25.107	71.635	58.124	1.00	20.72	A	N
ATOM	404	CA GLU A 53	23.852	71.237	58.736	1.00	20.40	A	C
ATOM	405	CB GLU A 53	22.731	72.185	58.294	1.00	21.74	A	C
ATOM	406	CG GLU A 53	22.655	73.438	59.159	1.00	21.95	A	C
ATOM	407	CD GLU A 53	21.839	74.551	58.536	1.00	23.86	A	C
ATOM	408	OE1 GLU A 53	20.797	74.260	57.906	1.00	23.19	A	O
ATOM	409	OE2 GLU A 53	22.238	75.727	58.685	1.00	24.44	A	O
ATOM	410	C GLU A 53	23.514	69.789	58.405	1.00	19.46	A	C
ATOM	411	O GLU A 53	22.813	69.122	59.160	1.00	22.12	A	O
ATOM	412	N ALA A 54	24.022	69.295	57.282	1.00	20.85	A	N
ATOM	413	CA ALA A 54	23.760	67.910	56.905	1.00	18.16	A	C
ATOM	414	CB ALA A 54	24.252	67.647	55.498	1.00	16.88	A	C
ATOM	415	C ALA A 54	24.474	66.997	57.899	1.00	18.85	A	C
ATOM	416	O ALA A 54	23.953	65.944	58.280	1.00	18.10	A	O

Figure 5I

ATOM	417	N	LEU	A	55	25.670	67.408	58.313	1.00	19.45	A	N
ATOM	418	CA	LEU	A	55	26.442	66.639	59.281	1.00	19.66	A	C
ATOM	419	CB	LEU	A	55	27.775	67.329	59.590	1.00	21.26	A	C
ATOM	420	CG	LEU	A	55	28.782	67.408	58.442	1.00	22.31	A	C
ATOM	421	CD1	LEU	A	55	30.070	68.042	58.935	1.00	21.17	A	C
ATOM	422	CD2	LEU	A	55	29.055	66.008	57.898	1.00	22.77	A	C
ATOM	423	C	LEU	A	55	25.626	66.504	60.556	1.00	21.84	A	C
ATOM	424	O	LEU	A	55	25.589	65.437	61.166	1.00	20.58	A	O
ATOM	425	N	ASP	A	56	24.959	67.584	60.953	1.00	21.85	A	N
ATOM	426	CA	ASP	A	56	24.147	67.543	62.157	1.00	22.53	A	C
ATOM	427	CB	ASP	A	56	23.506	68.904	62.437	1.00	25.87	A	C
ATOM	428	CG	ASP	A	56	24.530	69.986	62.715	1.00	29.28	A	C
ATOM	429	OD1	ASP	A	56	25.636	69.651	63.190	1.00	31.33	A	O
ATOM	430	OD2	ASP	A	56	24.226	71.172	62.473	1.00	32.07	A	O
ATOM	431	C	ASP	A	56	23.062	66.492	62.023	1.00	22.75	A	C
ATOM	432	O	ASP	A	56	22.777	65.762	62.974	1.00	22.74	A	O
ATOM	433	N	PHE	A	57	22.459	66.403	60.841	1.00	20.21	A	N
ATOM	434	CA	PHE	A	57	21.404	65.422	60.633	1.00	21.09	A	C
ATOM	435	CB	PHE	A	57	20.831	65.497	59.215	1.00	21.92	A	C
ATOM	436	CG	PHE	A	57	19.915	64.352	58.893	1.00	21.43	A	C
ATOM	437	CD1	PHE	A	57	18.609	64.336	59.370	1.00	22.87	A	C
ATOM	438	CD2	PHE	A	57	20.393	63.233	58.214	1.00	20.64	A	C
ATOM	439	CE1	PHE	A	57	17.792	63.218	59.184	1.00	20.01	A	C
ATOM	440	CE2	PHE	A	57	19.589	62.112	58.024	1.00	21.14	A	C
ATOM	441	CZ	PHE	A	57	18.286	62.104	58.512	1.00	23.52	A	C
ATOM	442	C	PHE	A	57	21.873	63.991	60.864	1.00	18.61	A	C
ATOM	443	O	PHE	A	57	21.148	63.181	61.441	1.00	20.52	A	O
ATOM	444	N	PHE	A	58	23.081	63.679	60.408	1.00	19.51	A	N
ATOM	445	CA	PHE	A	58	23.615	62.324	60.532	1.00	21.64	A	C
ATOM	446	CB	PHE	A	58	24.701	62.097	59.478	1.00	18.15	A	C
ATOM	447	CG	PHE	A	58	24.181	62.018	58.072	1.00	17.07	A	C
ATOM	448	CD1	PHE	A	58	24.380	63.072	57.180	1.00	15.61	A	C
ATOM	449	CD2	PHE	A	58	23.508	60.878	57.628	1.00	16.58	A	C
ATOM	450	CE1	PHE	A	58	23.920	62.993	55.868	1.00	16.17	A	C
ATOM	451	CE2	PHE	A	58	23.044	60.790	56.318	1.00	20.24	A	C
ATOM	452	CZ	PHE	A	58	23.251	61.850	55.436	1.00	14.25	A	C
ATOM	453	C	PHE	A	58	24.164	61.894	61.896	1.00	24.25	A	C
ATOM	454	O	PHE	A	58	24.323	60.697	62.147	1.00	24.91	A	O
ATOM	455	N	LYS	A	59	24.449	62.850	62.774	1.00	26.87	A	N
ATOM	456	CA	LYS	A	59	25.014	62.528	64.087	1.00	28.83	A	C
ATOM	457	CB	LYS	A	59	25.116	63.800	64.931	1.00	31.02	A	C
ATOM	458	CG	LYS	A	59	26.127	64.792	64.374	1.00	33.56	A	C
ATOM	459	CD	LYS	A	59	26.237	66.047	65.221	1.00	37.86	A	C
ATOM	460	CE	LYS	A	59	27.270	67.000	64.632	1.00	38.94	A	C
ATOM	461	NZ	LYS	A	59	27.433	68.240	65.443	1.00	41.75	A	N
ATOM	462	C	LYS	A	59	24.312	61.419	64.879	1.00	28.21	A	C
ATOM	463	O	LYS	A	59	24.973	60.541	65.439	1.00	28.12	A	O
ATOM	464	N	PRO	A	60	22.969	61.437	64.933	1.00	27.85	A	N
ATOM	465	CD	PRO	A	60	22.061	62.472	64.412	1.00	27.44	A	C
ATOM	466	CA	PRO	A	60	22.219	60.409	65.671	1.00	26.21	A	C
ATOM	467	CB	PRO	A	60	20.791	60.962	65.691	1.00	28.29	A	C
ATOM	468	CG	PRO	A	60	20.961	62.446	65.419	1.00	29.74	A	C
ATOM	469	C	PRO	A	60	22.264	59.040	64.994	1.00	25.09	A	C
ATOM	470	O	PRO	A	60	22.116	58.004	65.640	1.00	24.61	A	O
ATOM	471	N	HIS	A	61	22.469	59.045	63.682	1.00	24.30	A	N
ATOM	472	CA	HIS	A	61	22.489	57.815	62.906	1.00	23.28	A	C
ATOM	473	CB	HIS	A	61	22.210	58.148	61.445	1.00	23.75	A	C
ATOM	474	CG	HIS	A	61	20.813	58.616	61.202	1.00	23.81	A	C

Figure 5J

ATOM	475	CD2 HIS A 61	20.307	59.858	61.017	1.00	24.28	A	C
ATOM	476	ND1 HIS A 61	19.738	57.753	61.163	1.00	21.57	A	N
ATOM	477	CE1 HIS A 61	18.631	58.443	60.963	1.00	21.88	A	C
ATOM	478	NE2 HIS A 61	18.948	59.723	60.871	1.00	24.37	A	N
ATOM	479	C HIS A 61	23.754	56.979	63.012	1.00	23.45	A	C
ATOM	480	O HIS A 61	23.812	55.879	62.475	1.00	23.17	A	O
ATOM	481	N GLU A 62	24.752	57.497	63.718	1.00	26.52	A	N
ATOM	482	CA GLU A 62	26.030	56.811	63.892	1.00	27.77	A	C
ATOM	483	CB GLU A 62	25.944	55.818	65.062	1.00	33.97	A	C
ATOM	484	CG GLU A 62	24.861	54.754	64.943	1.00	37.16	A	C
ATOM	485	CD GLU A 62	24.468	54.176	66.292	1.00	40.46	A	C
ATOM	486	OE1 GLU A 62	25.367	53.907	67.117	1.00	41.12	A	O
ATOM	487	OE2 GLU A 62	23.255	53.983	66.525	1.00	42.43	A	O
ATOM	488	C GLU A 62	26.545	56.118	62.626	1.00	26.21	A	C
ATOM	489	O GLU A 62	26.699	54.897	62.579	1.00	26.16	A	O
ATOM	490	N ILE A 63	26.798	56.913	61.591	1.00	22.24	A	N
ATOM	491	CA ILE A 63	27.333	56.385	60.338	1.00	21.10	A	C
ATOM	492	CB ILE A 63	26.904	57.246	59.124	1.00	19.78	A	C
ATOM	493	CG2 ILE A 63	25.416	57.065	58.859	1.00	15.78	A	C
ATOM	494	CG1 ILE A 63	27.224	58.718	59.388	1.00	16.88	A	C
ATOM	495	CD1 ILE A 63	27.000	59.636	58.189	1.00	18.48	A	C
ATOM	496	C ILE A 63	28.853	56.420	60.483	1.00	18.95	A	C
ATOM	497	O ILE A 63	29.385	57.182	61.293	1.00	19.85	A	O
ATOM	498	N GLU A 64	29.553	55.593	59.718	1.00	19.95	A	N
ATOM	499	CA GLU A 64	31.008	55.561	59.804	1.00	19.49	A	C
ATOM	500	CB GLU A 64	31.492	54.118	59.926	1.00	22.43	A	C
ATOM	501	CG GLU A 64	31.139	53.498	61.268	1.00	26.80	A	C
ATOM	502	CD GLU A 64	31.762	52.136	61.452	1.00	29.61	A	C
ATOM	503	OE1 GLU A 64	33.012	52.044	61.421	1.00	31.41	A	O
ATOM	504	OE2 GLU A 64	31.003	51.160	61.623	1.00	29.53	A	O
ATOM	505	C GLU A 64	31.684	56.251	58.630	1.00	17.37	A	C
ATOM	506	O GLU A 64	32.890	56.453	58.631	1.00	16.28	A	O
ATOM	507	N LEU A 65	30.890	56.615	57.632	1.00	18.28	A	N
ATOM	508	CA LEU A 65	31.393	57.308	56.456	1.00	17.15	A	C
ATOM	509	CB LEU A 65	32.035	56.318	55.478	1.00	18.66	A	C
ATOM	510	CG LEU A 65	32.582	56.903	54.169	1.00	21.47	A	C
ATOM	511	CD1 LEU A 65	33.667	55.991	53.603	1.00	23.00	A	C
ATOM	512	CD2 LEU A 65	31.449	57.086	53.167	1.00	22.69	A	C
ATOM	513	C LEU A 65	30.230	58.021	55.786	1.00	16.52	A	C
ATOM	514	O LEU A 65	29.100	57.539	55.813	1.00	14.91	A	O
ATOM	515	N LEU A 66	30.510	59.180	55.204	1.00	14.90	A	N
ATOM	516	CA LEU A 66	29.486	59.946	54.526	1.00	14.23	A	C
ATOM	517	CB LEU A 66	29.264	61.288	55.231	1.00	14.12	A	C
ATOM	518	CG LEU A 66	28.297	62.240	54.514	1.00	14.20	A	C
ATOM	519	CD1 LEU A 66	26.932	61.586	54.415	1.00	14.73	A	C
ATOM	520	CD2 LEU A 66	28.195	63.562	55.262	1.00	13.86	A	C
ATOM	521	C LEU A 66	29.864	60.200	53.077	1.00	14.92	A	C
ATOM	522	O LEU A 66	30.975	60.642	52.773	1.00	14.96	A	O
ATOM	523	N ILE A 67	28.938	59.886	52.181	1.00	13.46	A	N
ATOM	524	CA ILE A 67	29.140	60.124	50.766	1.00	12.96	A	C
ATOM	525	CB ILE A 67	28.641	58.953	49.886	1.00	13.86	A	C
ATOM	526	CG2 ILE A 67	28.617	59.385	48.419	1.00	12.97	A	C
ATOM	527	CG1 ILE A 67	29.541	57.729	50.066	1.00	14.37	A	C
ATOM	528	CD1 ILE A 67	29.105	56.530	49.237	1.00	18.27	A	C
ATOM	529	C ILE A 67	28.314	61.346	50.406	1.00	12.36	A	C
ATOM	530	O ILE A 67	27.116	61.420	50.719	1.00	13.82	A	O
ATOM	531	N VAL A 68	28.964	62.317	49.780	1.00	12.37	A	N
ATOM	532	CA VAL A 68	28.275	63.516	49.342	1.00	12.34	A	C

Figure 5K

ATOM	533	CB VAL A 68	29.160	64.759	49.466	1.00	10.71	A	C
ATOM	534	CG1 VAL A 68	28.413	65.977	48.916	1.00	10.16	A	C
ATOM	535	CG2 VAL A 68	29.525	64.978	50.927	1.00	11.52	A	C
ATOM	536	C VAL A 68	28.002	63.222	47.884	1.00	11.20	A	C
ATOM	537	O VAL A 68	28.885	63.362	47.038	1.00	12.44	A	O
ATOM	538	N ALA A 69	26.785	62.775	47.602	1.00	9.18	A	N
ATOM	539	CA ALA A 69	26.405	62.415	46.244	1.00	10.89	A	C
ATOM	540	CB ALA A 69	25.129	61.581	46.263	1.00	9.29	A	C
ATOM	541	C ALA A 69	26.218	63.631	45.358	1.00	10.34	A	C
ATOM	542	O ALA A 69	26.341	63.546	44.139	1.00	11.20	A	O
ATOM	543	N CYS A 70	25.905	64.760	45.982	1.00	10.65	A	N
ATOM	544	CA CYS A 70	25.692	66.000	45.253	1.00	11.99	A	C
ATOM	545	CB CYS A 70	25.026	67.030	46.167	1.00	13.56	A	C
ATOM	546	SG CYS A 70	24.697	68.605	45.370	1.00	10.79	A	S
ATOM	547	C CYS A 70	27.004	66.560	44.720	1.00	11.25	A	C
ATOM	548	O CYS A 70	27.981	66.708	45.463	1.00	9.23	A	O
ATOM	549	N ASN A 71	27.030	66.867	43.425	1.00	10.81	A	N
ATOM	550	CA ASN A 71	28.228	67.424	42.807	1.00	9.85	A	C
ATOM	551	CB ASN A 71	28.120	67.369	41.285	1.00	7.25	A	C
ATOM	552	CG ASN A 71	28.026	65.959	40.768	1.00	9.24	A	C
ATOM	553	OD1 ASN A 71	26.998	65.298	40.919	1.00	8.82	A	O
ATOM	554	ND2 ASN A 71	29.107	65.478	40.165	1.00	9.13	A	N
ATOM	555	C ASN A 71	28.434	68.866	43.246	1.00	12.09	A	C
ATOM	556	O ASN A 71	29.565	69.321	43.432	1.00	9.50	A	O
ATOM	557	N THR A 72	27.337	69.593	43.399	1.00	10.94	A	N
ATOM	558	CA THR A 72	27.436	70.975	43.834	1.00	10.39	A	C
ATOM	559	CB THR A 72	26.073	71.676	43.779	1.00	9.07	A	C
ATOM	560	OG1 THR A 72	25.599	71.675	42.429	1.00	10.15	A	O
ATOM	561	CG2 THR A 72	26.200	73.122	44.262	1.00	9.53	A	C
ATOM	562	C THR A 72	27.974	71.029	45.259	1.00	11.47	A	C
ATOM	563	O THR A 72	28.882	71.808	45.556	1.00	9.49	A	O
ATOM	564	N ALA A 73	27.415	70.202	46.144	1.00	13.67	A	N
ATOM	565	CA ALA A 73	27.871	70.171	47.531	1.00	13.27	A	C
ATOM	566	CB ALA A 73	26.979	69.251	48.368	1.00	15.12	A	C
ATOM	567	C ALA A 73	29.318	69.691	47.586	1.00	15.74	A	C
ATOM	568	O ALA A 73	30.111	70.160	48.412	1.00	15.99	A	O
ATOM	569	N SER A 74	29.660	68.746	46.714	1.00	13.48	A	N
ATOM	570	CA SER A 74	31.021	68.226	46.677	1.00	13.55	A	C
ATOM	571	CB SER A 74	31.133	67.078	45.666	1.00	10.32	A	C
ATOM	572	OG SER A 74	30.483	65.916	46.148	1.00	14.22	A	O
ATOM	573	C SER A 74	31.994	69.333	46.297	1.00	15.60	A	C
ATOM	574	O SER A 74	33.093	69.439	46.845	1.00	14.18	A	O
ATOM	575	N ALA A 75	31.578	70.169	45.359	1.00	13.93	A	N
ATOM	576	CA ALA A 75	32.422	71.259	44.899	1.00	15.79	A	C
ATOM	577	CB ALA A 75	31.899	71.773	43.560	1.00	16.15	A	C
ATOM	578	C ALA A 75	32.549	72.420	45.886	1.00	17.44	A	C
ATOM	579	O ALA A 75	33.639	72.967	46.063	1.00	18.83	A	O
ATOM	580	N LEU A 76	31.453	72.777	46.548	1.00	15.33	A	N
ATOM	581	CA LEU A 76	31.462	73.920	47.460	1.00	17.71	A	C
ATOM	582	CB LEU A 76	30.236	74.793	47.189	1.00	16.64	A	C
ATOM	583	CG LEU A 76	30.154	75.642	45.917	1.00	19.98	A	C
ATOM	584	CD1 LEU A 76	30.338	74.793	44.681	1.00	15.78	A	C
ATOM	585	CD2 LEU A 76	28.801	76.343	45.886	1.00	19.48	A	C
ATOM	586	C LEU A 76	31.544	73.693	48.967	1.00	18.84	A	C
ATOM	587	O LEU A 76	32.101	74.531	49.685	1.00	17.49	A	O
ATOM	588	N ALA A 77	30.996	72.584	49.456	1.00	16.91	A	N
ATOM	589	CA ALA A 77	30.986	72.338	50.896	1.00	17.45	A	C
ATOM	590	CB ALA A 77	29.546	72.118	51.363	1.00	15.97	A	C

Figure 5L

ATOM	591	C	ALA	A	77	31.862	71.206	51.422	1.00	17.05	A	C
ATOM	592	O	ALA	A	77	32.092	71.120	52.630	1.00	15.31	A	O
ATOM	593	N	LEU	A	78	32.355	70.350	50.533	1.00	17.95	A	N
ATOM	594	CA	LEU	A	78	33.173	69.217	50.950	1.00	18.28	A	C
ATOM	595	CB	LEU	A	78	33.701	68.456	49.726	1.00	17.49	A	C
ATOM	596	CG	LEU	A	78	34.425	67.141	50.053	1.00	18.47	A	C
ATOM	597	CD1	LEU	A	78	33.467	66.196	50.771	1.00	13.07	A	C
ATOM	598	CD2	LEU	A	78	34.949	66.493	48.772	1.00	15.57	A	C
ATOM	599	C	LEU	A	78	34.337	69.572	51.873	1.00	19.44	A	C
ATOM	600	O	LEU	A	78	34.478	68.986	52.944	1.00	17.85	A	O
ATOM	601	N	GLU	A	79	35.173	70.524	51.472	1.00	20.74	A	N
ATOM	602	CA	GLU	A	79	36.310	70.897	52.304	1.00	23.29	A	C
ATOM	603	CB	GLU	A	79	37.112	72.023	51.652	1.00	25.50	A	C
ATOM	604	CG	GLU	A	79	38.332	72.435	52.464	1.00	32.40	A	C
ATOM	605	CD	GLU	A	79	39.248	73.382	51.714	1.00	36.37	A	C
ATOM	606	OE1	GLU	A	79	38.811	74.501	51.377	1.00	38.33	A	O
ATOM	607	OE2	GLU	A	79	40.411	73.002	51.459	1.00	40.30	A	O
ATOM	608	C	GLU	A	79	35.900	71.312	53.716	1.00	22.08	A	C
ATOM	609	O	GLU	A	79	36.512	70.888	54.691	1.00	22.83	A	O
ATOM	610	N	GLU	A	80	34.862	72.132	53.825	1.00	22.05	A	N
ATOM	611	CA	GLU	A	80	34.399	72.591	55.125	1.00	21.68	A	C
ATOM	612	CB	GLU	A	80	33.336	73.675	54.957	1.00	26.13	A	C
ATOM	613	CG	GLU	A	80	33.081	74.457	56.232	1.00	32.22	A	C
ATOM	614	CD	GLU	A	80	34.173	75.479	56.521	1.00	34.38	A	C
ATOM	615	OE1	GLU	A	80	35.371	75.145	56.399	1.00	36.64	A	O
ATOM	616	OE2	GLU	A	80	33.828	76.623	56.878	1.00	38.94	A	O
ATOM	617	C	GLU	A	80	33.823	71.435	55.939	1.00	21.19	A	C
ATOM	618	O	GLU	A	80	34.013	71.359	57.152	1.00	20.49	A	O
ATOM	619	N	MET	A	81	33.116	70.533	55.269	1.00	18.90	A	N
ATOM	620	CA	MET	A	81	32.531	69.389	55.950	1.00	16.84	A	C
ATOM	621	CB	MET	A	81	31.639	68.605	54.992	1.00	14.00	A	C
ATOM	622	CG	MET	A	81	30.375	69.349	54.615	1.00	15.86	A	C
ATOM	623	SD	MET	A	81	29.517	68.583	53.244	1.00	15.74	A	S
ATOM	624	CE	MET	A	81	28.866	67.134	54.019	1.00	14.04	A	C
ATOM	625	C	MET	A	81	33.618	68.474	56.503	1.00	17.31	A	C
ATOM	626	O	MET	A	81	33.539	68.020	57.646	1.00	16.49	A	O
ATOM	627	N	GLN	A	82	34.632	68.216	55.684	1.00	18.90	A	N
ATOM	628	CA	GLN	A	82	35.739	67.351	56.078	1.00	22.12	A	C
ATOM	629	CB	GLN	A	82	36.674	67.125	54.887	1.00	22.92	A	C
ATOM	630	CG	GLN	A	82	36.001	66.442	53.706	1.00	21.03	A	C
ATOM	631	CD	GLN	A	82	36.961	66.158	52.575	1.00	22.15	A	C
ATOM	632	OE1	GLN	A	82	37.725	67.033	52.159	1.00	22.13	A	O
ATOM	633	NE2	GLN	A	82	36.924	64.934	52.061	1.00	20.69	A	N
ATOM	634	C	GLN	A	82	36.516	67.956	57.237	1.00	24.53	A	C
ATOM	635	O	GLN	A	82	37.051	67.239	58.086	1.00	23.68	A	O
ATOM	636	N	LYS	A	83	36.565	69.282	57.271	1.00	26.24	A	N
ATOM	637	CA	LYS	A	83	37.282	69.993	58.317	1.00	30.03	A	C
ATOM	638	CB	LYS	A	83	37.178	71.505	58.092	1.00	30.40	A	C
ATOM	639	CG	LYS	A	83	38.023	72.336	59.041	1.00	34.26	A	C
ATOM	640	CD	LYS	A	83	37.873	73.829	58.756	1.00	38.51	A	C
ATOM	641	CE	LYS	A	83	38.287	74.175	57.329	1.00	42.25	A	C
ATOM	642	NZ	LYS	A	83	38.067	75.619	57.005	1.00	43.57	A	N
ATOM	643	C	LYS	A	83	36.764	69.650	59.708	1.00	30.42	A	C
ATOM	644	O	LYS	A	83	37.551	69.395	60.616	1.00	31.77	A	O
ATOM	645	N	TYR	A	84	35.445	69.624	59.870	1.00	30.72	A	N
ATOM	646	CA	TYR	A	84	34.850	69.341	61.173	1.00	34.49	A	C
ATOM	647	CB	TYR	A	84	33.702	70.322	61.441	1.00	38.58	A	C
ATOM	648	CG	TYR	A	84	34.109	71.781	61.386	1.00	43.85	A	C

Figure 5M

ATOM	649	CD1 TYR A 84	34.172	72.465	60.169	1.00	45.26	A	C
ATOM	650	CE1 TYR A 84	34.575	73.803	60.111	1.00	46.74	A	C
ATOM	651	CD2 TYR A 84	34.460	72.472	62.549	1.00	45.80	A	C
ATOM	652	CE2 TYR A 84	34.865	73.808	62.501	1.00	47.25	A	C
ATOM	653	CZ TYR A 84	34.920	74.467	61.281	1.00	47.45	A	C
ATOM	654	OH TYR A 84	35.321	75.784	61.233	1.00	47.13	A	O
ATOM	655	C TYR A 84	34.349	67.911	61.401	1.00	33.43	A	C
ATOM	656	O TYR A 84	33.973	67.555	62.520	1.00	34.46	A	O
ATOM	657	N SER A 85	34.348	67.088	60.361	1.00	30.46	A	N
ATOM	658	CA SER A 85	33.865	65.721	60.507	1.00	27.21	A	C
ATOM	659	CB SER A 85	33.384	65.192	59.160	1.00	26.99	A	C
ATOM	660	OG SER A 85	33.003	63.836	59.279	1.00	27.59	A	O
ATOM	661	C SER A 85	34.883	64.745	61.088	1.00	25.50	A	C
ATOM	662	O SER A 85	36.059	64.778	60.730	1.00	24.71	A	O
ATOM	663	N LYS A 86	34.415	63.875	61.981	1.00	23.68	A	N
ATOM	664	CA LYS A 86	35.265	62.868	62.609	1.00	23.93	A	C
ATOM	665	CB LYS A 86	34.741	62.509	64.005	1.00	26.65	A	C
ATOM	666	CG LYS A 86	34.774	63.644	65.028	1.00	31.69	A	C
ATOM	667	CD LYS A 86	36.190	63.990	65.491	1.00	34.31	A	C
ATOM	668	CE LYS A 86	37.015	64.657	64.401	1.00	35.72	A	C
ATOM	669	NZ LYS A 86	38.359	65.087	64.902	1.00	41.28	A	N
ATOM	670	C LYS A 86	35.308	61.607	61.752	1.00	22.61	A	C
ATOM	671	O LYS A 86	36.192	60.765	61.914	1.00	23.21	A	O
ATOM	672	N ILE A 87	34.337	61.462	60.857	1.00	19.67	A	N
ATOM	673	CA ILE A 87	34.305	60.302	59.975	1.00	18.68	A	C
ATOM	674	CB ILE A 87	32.896	59.681	59.888	1.00	18.75	A	C
ATOM	675	CG2 ILE A 87	32.510	59.090	61.233	1.00	18.89	A	C
ATOM	676	CG1 ILE A 87	31.887	60.742	59.433	1.00	21.06	A	C
ATOM	677	CD1 ILE A 87	30.508	60.187	59.086	1.00	18.90	A	C
ATOM	678	C ILE A 87	34.720	60.751	58.585	1.00	16.98	A	C
ATOM	679	O ILE A 87	34.614	61.932	58.248	1.00	16.62	A	O
ATOM	680	N PRO A 88	35.219	59.822	57.761	1.00	17.72	A	N
ATOM	681	CD PRO A 88	35.548	58.403	57.992	1.00	17.09	A	C
ATOM	682	CA PRO A 88	35.616	60.247	56.418	1.00	17.99	A	C
ATOM	683	CB PRO A 88	36.319	59.011	55.857	1.00	19.59	A	C
ATOM	684	CG PRO A 88	35.648	57.872	56.587	1.00	18.28	A	C
ATOM	685	C PRO A 88	34.411	60.672	55.577	1.00	19.00	A	C
ATOM	686	O PRO A 88	33.318	60.125	55.711	1.00	17.80	A	O
ATOM	687	N ILE A 89	34.622	61.668	54.726	1.00	19.35	A	N
ATOM	688	CA ILE A 89	33.577	62.163	53.843	1.00	18.35	A	C
ATOM	689	CB ILE A 89	33.171	63.613	54.196	1.00	18.03	A	C
ATOM	690	CG2 ILE A 89	32.157	64.136	53.185	1.00	16.99	A	C
ATOM	691	CG1 ILE A 89	32.562	63.641	55.598	1.00	18.30	A	C
ATOM	692	CD1 ILE A 89	32.020	64.990	56.011	1.00	26.25	A	C
ATOM	693	C ILE A 89	34.134	62.108	52.429	1.00	17.01	A	C
ATOM	694	O ILE A 89	35.206	62.646	52.144	1.00	18.36	A	O
ATOM	695	N VAL A 90	33.406	61.435	51.551	1.00	15.45	A	N
ATOM	696	CA VAL A 90	33.829	61.270	50.173	1.00	14.79	A	C
ATOM	697	CB VAL A 90	33.899	59.779	49.806	1.00	14.33	A	C
ATOM	698	CG1 VAL A 90	34.409	59.605	48.389	1.00	12.10	A	C
ATOM	699	CG2 VAL A 90	34.804	59.055	50.796	1.00	15.51	A	C
ATOM	700	C VAL A 90	32.858	61.957	49.234	1.00	14.94	A	C
ATOM	701	O VAL A 90	31.658	61.702	49.283	1.00	15.20	A	O
ATOM	702	N GLY A 91	33.391	62.830	48.387	1.00	13.93	A	N
ATOM	703	CA GLY A 91	32.570	63.540	47.427	1.00	14.67	A	C
ATOM	704	C GLY A 91	32.606	62.829	46.087	1.00	15.17	A	C
ATOM	705	O GLY A 91	33.262	61.794	45.937	1.00	15.39	A	O
ATOM	706	N VAL A 92	31.921	63.391	45.101	1.00	13.28	A	N

Figure 5N

ATOM	707	CA	VAL A 92	31.871	62.777	43.782	1.00	15.09	A	C
ATOM	708	CB	VAL A 92	30.434	62.762	43.243	1.00	14.78	A	C
ATOM	709	CG1	VAL A 92	29.629	61.703	43.977	1.00	14.03	A	C
ATOM	710	CG2	VAL A 92	29.793	64.135	43.412	1.00	10.70	A	C
ATOM	711	C	VAL A 92	32.770	63.405	42.730	1.00	14.63	A	C
ATOM	712	O	VAL A 92	32.739	63.006	41.567	1.00	17.71	A	O
ATOM	713	N	ILE A 93	33.578	64.378	43.128	1.00	15.55	A	N
ATOM	714	CA	ILE A 93	34.468	65.025	42.176	1.00	16.08	A	C
ATOM	715	CB	ILE A 93	34.684	66.497	42.561	1.00	16.56	A	C
ATOM	716	CG2	ILE A 93	35.653	67.169	41.589	1.00	11.15	A	C
ATOM	717	CG1	ILE A 93	33.329	67.210	42.555	1.00	17.56	A	C
ATOM	718	CD1	ILE A 93	33.385	68.627	43.056	1.00	24.35	A	C
ATOM	719	C	ILE A 93	35.812	64.304	42.032	1.00	15.47	A	C
ATOM	720	O	ILE A 93	36.180	63.904	40.926	1.00	14.93	A	O
ATOM	721	N	GLU A 94	36.536	64.118	43.132	1.00	16.92	A	N
ATOM	722	CA	GLU A 94	37.831	63.446	43.052	1.00	16.92	A	C
ATOM	723	CB	GLU A 94	38.471	63.305	44.434	1.00	20.92	A	C
ATOM	724	CG	GLU A 94	39.894	62.754	44.361	1.00	26.29	A	C
ATOM	725	CD	GLU A 94	40.576	62.678	45.713	1.00	32.62	A	C
ATOM	726	OE1	GLU A 94	40.310	61.723	46.474	1.00	35.02	A	O
ATOM	727	OE2	GLU A 94	41.377	63.588	46.019	1.00	37.91	A	O
ATOM	728	C	GLU A 94	37.745	62.067	42.399	1.00	16.23	A	C
ATOM	729	O	GLU A 94	38.594	61.710	41.578	1.00	12.72	A	O
ATOM	730	N	PRO A 95	36.728	61.263	42.765	1.00	14.67	A	N
ATOM	731	CD	PRO A 95	35.728	61.426	43.835	1.00	11.50	A	C
ATOM	732	CA	PRO A 95	36.612	59.933	42.154	1.00	13.49	A	C
ATOM	733	CB	PRO A 95	35.324	59.385	42.766	1.00	10.50	A	C
ATOM	734	CG	PRO A 95	35.340	59.990	44.132	1.00	13.67	A	C
ATOM	735	C	PRO A 95	36.552	59.995	40.628	1.00	13.36	A	C
ATOM	736	O	PRO A 95	37.111	59.144	39.942	1.00	13.11	A	O
ATOM	737	N	SER A 96	35.868	61.001	40.097	1.00	13.15	A	N
ATOM	738	CA	SER A 96	35.769	61.145	38.652	1.00	13.88	A	C
ATOM	739	CB	SER A 96	34.712	62.190	38.287	1.00	13.27	A	C
ATOM	740	OG	SER A 96	33.415	61.695	38.569	1.00	13.98	A	O
ATOM	741	C	SER A 96	37.121	61.532	38.062	1.00	16.13	A	C
ATOM	742	O	SER A 96	37.482	61.069	36.978	1.00	16.25	A	O
ATOM	743	N	ILE A 97	37.862	62.381	38.774	1.00	16.51	A	N
ATOM	744	CA	ILE A 97	39.181	62.807	38.318	1.00	16.84	A	C
ATOM	745	CB	ILE A 97	39.836	63.786	39.325	1.00	20.72	A	C
ATOM	746	CG2	ILE A 97	41.243	64.165	38.860	1.00	19.14	A	C
ATOM	747	CG1	ILE A 97	38.968	65.039	39.477	1.00	21.89	A	C
ATOM	748	CD1	ILE A 97	38.774	65.827	38.192	1.00	22.65	A	C
ATOM	749	C	ILE A 97	40.070	61.572	38.178	1.00	17.43	A	C
ATOM	750	O	ILE A 97	40.762	61.399	37.171	1.00	16.68	A	O
ATOM	751	N	LEU A 98	40.043	60.716	39.193	1.00	15.65	A	N
ATOM	752	CA	LEU A 98	40.840	59.498	39.182	1.00	18.16	A	C
ATOM	753	CB	LEU A 98	40.749	58.809	40.547	1.00	16.07	A	C
ATOM	754	CG	LEU A 98	41.359	59.641	41.682	1.00	15.84	A	C
ATOM	755	CD1	LEU A 98	41.069	58.980	43.020	1.00	13.47	A	C
ATOM	756	CD2	LEU A 98	42.866	59.788	41.466	1.00	19.12	A	C
ATOM	757	C	LEU A 98	40.374	58.563	38.063	1.00	17.77	A	C
ATOM	758	O	LEU A 98	41.199	57.934	37.389	1.00	16.62	A	O
ATOM	759	N	ALA A 99	39.058	58.485	37.859	1.00	16.23	A	N
ATOM	760	CA	ALA A 99	38.490	57.643	36.807	1.00	18.22	A	C
ATOM	761	CB	ALA A 99	36.962	57.767	36.788	1.00	20.22	A	C
ATOM	762	C	ALA A 99	39.065	58.077	35.462	1.00	17.90	A	C
ATOM	763	O	ALA A 99	39.496	57.246	34.658	1.00	17.01	A	O
ATOM	764	N	ILE A 100	39.067	59.386	35.226	1.00	15.73	A	N

Figure 5O

ATOM	765	CA	ILE A 100	39.601	59.939	33.987	1.00	17.26	A	C
ATOM	766	CB	ILE A 100	39.378	61.461	33.932	1.00	12.99	A	C
ATOM	767	CG2	ILE A 100	40.158	62.065	32.772	1.00	16.82	A	C
ATOM	768	CG1	ILE A 100	37.880	61.752	33.795	1.00	15.82	A	C
ATOM	769	CD1	ILE A 100	37.516	63.216	33.925	1.00	14.23	A	C
ATOM	770	C	ILE A 100	41.099	59.640	33.878	1.00	19.31	A	C
ATOM	771	O	ILE A 100	41.594	59.260	32.815	1.00	19.06	A	O
ATOM	772	N	LYS A 101	41.812	59.802	34.986	1.00	19.58	A	N
ATOM	773	CA	LYS A 101	43.246	59.543	35.019	1.00	22.07	A	C
ATOM	774	CB	LYS A 101	43.771	59.741	36.440	1.00	23.70	A	C
ATOM	775	CG	LYS A 101	45.273	59.581	36.595	1.00	28.63	A	C
ATOM	776	CD	LYS A 101	45.671	59.665	38.062	1.00	33.56	A	C
ATOM	777	CE	LYS A 101	47.180	59.570	38.245	1.00	36.39	A	C
ATOM	778	NZ	LYS A 101	47.894	60.739	37.649	1.00	38.26	A	N
ATOM	779	C	LYS A 101	43.538	58.117	34.551	1.00	23.93	A	C
ATOM	780	O	LYS A 101	44.472	57.882	33.780	1.00	23.77	A	O
ATOM	781	N	ARG A 102	42.723	57.174	35.010	1.00	23.37	A	N
ATOM	782	CA	ARG A 102	42.899	55.775	34.655	1.00	25.65	A	C
ATOM	783	CB	ARG A 102	42.096	54.870	35.593	1.00	25.41	A	C
ATOM	784	CG	ARG A 102	42.656	54.749	37.000	1.00	28.61	A	C
ATOM	785	CD	ARG A 102	41.926	53.657	37.782	1.00	31.73	A	C
ATOM	786	NE	ARG A 102	40.486	53.903	37.858	1.00	35.18	A	N
ATOM	787	CZ	ARG A 102	39.903	54.713	38.736	1.00	34.42	A	C
ATOM	788	NH1	ARG A 102	38.586	54.876	38.718	1.00	29.69	A	N
ATOM	789	NH2	ARG A 102	40.637	55.344	39.644	1.00	34.01	A	N
ATOM	790	C	ARG A 102	42.522	55.437	33.222	1.00	26.39	A	C
ATOM	791	O	ARG A 102	43.180	54.611	32.594	1.00	26.86	A	O
ATOM	792	N	GLN A 103	41.473	56.061	32.694	1.00	26.77	A	N
ATOM	793	CA	GLN A 103	41.067	55.733	31.331	1.00	27.82	A	C
ATOM	794	CB	GLN A 103	39.585	55.335	31.306	1.00	28.07	A	C
ATOM	795	CG	GLN A 103	38.661	56.210	32.116	1.00	31.66	A	C
ATOM	796	CD	GLN A 103	37.378	55.489	32.504	1.00	32.01	A	C
ATOM	797	OE1	GLN A 103	36.672	54.951	31.651	1.00	32.82	A	O
ATOM	798	NE2	GLN A 103	37.071	55.479	33.797	1.00	31.78	A	N
ATOM	799	C	GLN A 103	41.363	56.739	30.223	1.00	26.37	A	C
ATOM	800	O	GLN A 103	41.024	56.494	29.066	1.00	26.19	A	O
ATOM	801	N	VAL A 104	42.003	57.856	30.559	1.00	25.47	A	N
ATOM	802	CA	VAL A 104	42.342	58.855	29.550	1.00	24.55	A	C
ATOM	803	CB	VAL A 104	41.542	60.154	29.756	1.00	23.42	A	C
ATOM	804	CG1	VAL A 104	41.998	61.208	28.755	1.00	24.85	A	C
ATOM	805	CG2	VAL A 104	40.055	59.876	29.582	1.00	19.58	A	C
ATOM	806	C	VAL A 104	43.838	59.174	29.578	1.00	26.78	A	C
ATOM	807	O	VAL A 104	44.287	60.043	30.324	1.00	25.34	A	O
ATOM	808	N	GLU A 105	44.601	58.460	28.755	1.00	27.15	A	N
ATOM	809	CA	GLU A 105	46.045	58.641	28.679	1.00	28.29	A	C
ATOM	810	CB	GLU A 105	46.680	57.457	27.947	1.00	33.28	A	C
ATOM	811	CG	GLU A 105	46.743	56.183	28.771	1.00	42.55	A	C
ATOM	812	CD	GLU A 105	47.669	56.315	29.969	1.00	46.07	A	C
ATOM	813	OE1	GLU A 105	47.467	57.242	30.784	1.00	48.67	A	O
ATOM	814	OE2	GLU A 105	48.600	55.491	30.095	1.00	49.87	A	O
ATOM	815	C	GLU A 105	46.461	59.930	27.995	1.00	27.62	A	C
ATOM	816	O	GLU A 105	47.395	60.600	28.437	1.00	27.02	A	O
ATOM	817	N	ASP A 106	45.769	60.273	26.914	1.00	26.11	A	N
ATOM	818	CA	ASP A 106	46.079	61.485	26.164	1.00	25.35	A	C
ATOM	819	CB	ASP A 106	45.271	61.526	24.867	1.00	24.40	A	C
ATOM	820	CG	ASP A 106	45.714	62.641	23.932	1.00	25.06	A	C
ATOM	821	OD1	ASP A 106	46.302	63.640	24.404	1.00	25.51	A	O
ATOM	822	OD2	ASP A 106	45.458	62.522	22.718	1.00	25.51	A	O

Figure 5P

ATOM	823	C	ASP A 106	45.759	62.722	26.991	1.00	24.65	A	C
ATOM	824	O	ASP A 106	44.593	63.086	27.142	1.00	24.49	A	O
ATOM	825	N	LYS A 107	46.791	63.372	27.519	1.00	25.06	A	N
ATOM	826	CA	LYS A 107	46.593	64.570	28.327	1.00	24.62	A	C
ATOM	827	CB	LYS A 107	47.919	65.024	28.954	1.00	26.00	A	C
ATOM	828	CG	LYS A 107	48.506	64.047	29.972	1.00	28.40	A	C
ATOM	829	CD	LYS A 107	47.527	63.770	31.107	1.00	26.24	A	C
ATOM	830	CE	LYS A 107	48.086	62.757	32.090	1.00	30.72	A	C
ATOM	831	NZ	LYS A 107	47.086	62.398	33.133	1.00	34.82	A	N
ATOM	832	C	LYS A 107	46.000	65.708	27.503	1.00	24.04	A	C
ATOM	833	O	LYS A 107	45.538	66.706	28.054	1.00	25.01	A	O
ATOM	834	N	ASN A 108	46.014	65.555	26.182	1.00	24.07	A	N
ATOM	835	CA	ASN A 108	45.473	66.572	25.286	1.00	23.49	A	C
ATOM	836	CB	ASN A 108	46.390	66.750	24.073	1.00	23.91	A	C
ATOM	837	CG	ASN A 108	47.596	67.601	24.385	1.00	26.66	A	C
ATOM	838	OD1	ASN A 108	47.464	68.780	24.716	1.00	28.22	A	O
ATOM	839	ND2	ASN A 108	48.780	67.011	24.293	1.00	26.45	A	N
ATOM	840	C	ASN A 108	44.059	66.255	24.818	1.00	21.66	A	C
ATOM	841	O	ASN A 108	43.487	66.983	24.009	1.00	22.58	A	O
ATOM	842	N	ALA A 109	43.494	65.164	25.321	1.00	21.45	A	N
ATOM	843	CA	ALA A 109	42.137	64.793	24.946	1.00	20.49	A	C
ATOM	844	CB	ALA A 109	41.755	63.468	25.599	1.00	21.55	A	C
ATOM	845	C	ALA A 109	41.187	65.902	25.402	1.00	18.98	A	C
ATOM	846	O	ALA A 109	41.237	66.346	26.546	1.00	18.14	A	O
ATOM	847	N	PRO A 110	40.315	66.375	24.505	1.00	19.61	A	N
ATOM	848	CD	PRO A 110	40.090	65.997	23.100	1.00	20.78	A	C
ATOM	849	CA	PRO A 110	39.397	67.436	24.919	1.00	18.53	A	C
ATOM	850	CB	PRO A 110	38.762	67.872	23.606	1.00	18.56	A	C
ATOM	851	CG	PRO A 110	38.726	66.596	22.825	1.00	22.18	A	C
ATOM	852	C	PRO A 110	38.380	66.924	25.928	1.00	17.90	A	C
ATOM	853	O	PRO A 110	37.623	65.996	25.650	1.00	18.78	A	O
ATOM	854	N	ILE A 111	38.384	67.526	27.109	1.00	16.88	A	N
ATOM	855	CA	ILE A 111	37.461	67.137	28.165	1.00	16.87	A	C
ATOM	856	CB	ILE A 111	38.197	66.905	29.503	1.00	17.13	A	C
ATOM	857	CG2	ILE A 111	37.195	66.560	30.592	1.00	18.00	A	C
ATOM	858	CG1	ILE A 111	39.225	65.780	29.352	1.00	16.90	A	C
ATOM	859	CD1	ILE A 111	40.127	65.612	30.574	1.00	20.07	A	C
ATOM	860	C	ILE A 111	36.438	68.246	28.360	1.00	14.74	A	C
ATOM	861	O	ILE A 111	36.792	69.422	28.422	1.00	18.10	A	O
ATOM	862	N	LEU A 112	35.170	67.861	28.450	1.00	15.95	A	N
ATOM	863	CA	LEU A 112	34.086	68.814	28.646	1.00	15.98	A	C
ATOM	864	CB	LEU A 112	33.081	68.715	27.498	1.00	13.81	A	C
ATOM	865	CG	LEU A 112	31.755	69.460	27.703	1.00	17.30	A	C
ATOM	866	CD1	LEU A 112	32.000	70.958	27.834	1.00	12.50	A	C
ATOM	867	CD2	LEU A 112	30.832	69.165	26.524	1.00	17.57	A	C
ATOM	868	C	LEU A 112	33.379	68.527	29.966	1.00	15.50	A	C
ATOM	869	O	LEU A 112	32.823	67.445	30.158	1.00	14.25	A	O
ATOM	870	N	VAL A 113	33.394	69.507	30.864	1.00	15.54	A	N
ATOM	871	CA	VAL A 113	32.767	69.361	32.173	1.00	15.01	A	C
ATOM	872	CB	VAL A 113	33.614	70.035	33.278	1.00	16.33	A	C
ATOM	873	CG1	VAL A 113	33.011	69.752	34.653	1.00	12.34	A	C
ATOM	874	CG2	VAL A 113	35.053	69.538	33.208	1.00	15.51	A	C
ATOM	875	C	VAL A 113	31.390	70.006	32.178	1.00	15.47	A	C
ATOM	876	O	VAL A 113	31.257	71.197	31.901	1.00	15.67	A	O
ATOM	877	N	LEU A 114	30.370	69.215	32.494	1.00	14.67	A	N
ATOM	878	CA	LEU A 114	29.000	69.717	32.554	1.00	13.42	A	C
ATOM	879	CB	LEU A 114	28.074	68.836	31.716	1.00	13.87	A	C
ATOM	880	CG	LEU A 114	28.440	68.622	30.247	1.00	15.67	A	C

Figure 5Q

ATOM	881	CD1 LEU A 114	27.349	67.775	29.595	1.00	14.66	A	C
ATOM	882	CD2 LEU A 114	28.583	69.965	29.528	1.00	16.47	A	C
ATOM	883	C LEU A 114	28.536	69.684	34.006	1.00	12.89	A	C
ATOM	884	O LEU A 114	28.772	68.706	34.718	1.00	12.06	A	O
ATOM	885	N GLY A 115	27.873	70.745	34.451	1.00	13.97	A	N
ATOM	886	CA GLY A 115	27.403	70.763	35.822	1.00	12.19	A	C
ATOM	887	C GLY A 115	26.528	71.961	36.088	1.00	13.28	A	C
ATOM	888	O GLY A 115	26.171	72.696	35.160	1.00	14.73	A	O
ATOM	889	N THR A 116	26.167	72.153	37.351	1.00	11.11	A	N
ATOM	890	CA THR A 116	25.348	73.297	37.725	1.00	13.32	A	C
ATOM	891	CB THR A 116	24.866	73.197	39.170	1.00	11.37	A	C
ATOM	892	OG1 THR A 116	26.000	73.180	40.041	1.00	10.70	A	O
ATOM	893	CG2 THR A 116	24.036	71.939	39.367	1.00	10.35	A	C
ATOM	894	C THR A 116	26.195	74.554	37.614	1.00	14.14	A	C
ATOM	895	O THR A 116	27.416	74.482	37.431	1.00	14.71	A	O
ATOM	896	N LYS A 117	25.535	75.701	37.716	1.00	13.99	A	N
ATOM	897	CA LYS A 117	26.204	76.993	37.657	1.00	14.71	A	C
ATOM	898	CB LYS A 117	25.147	78.105	37.777	1.00	15.38	A	C
ATOM	899	CG LYS A 117	25.652	79.472	38.236	1.00	25.83	A	C
ATOM	900	CD LYS A 117	26.685	80.064	37.296	1.00	33.76	A	C
ATOM	901	CE LYS A 117	26.103	80.361	35.920	1.00	38.20	A	C
ATOM	902	NZ LYS A 117	27.105	81.002	35.015	1.00	42.09	A	N
ATOM	903	C LYS A 117	27.233	77.085	38.787	1.00	12.72	A	C
ATOM	904	O LYS A 117	28.356	77.549	38.588	1.00	11.82	A	O
ATOM	905	N ALA A 118	26.854	76.621	39.972	1.00	11.59	A	N
ATOM	906	CA ALA A 118	27.750	76.671	41.120	1.00	11.90	A	C
ATOM	907	CB ALA A 118	26.990	76.297	42.382	1.00	8.77	A	C
ATOM	908	C ALA A 118	28.965	75.758	40.955	1.00	13.39	A	C
ATOM	909	O ALA A 118	30.099	76.161	41.223	1.00	14.34	A	O
ATOM	910	N THR A 119	28.721	74.530	40.508	1.00	13.12	A	N
ATOM	911	CA THR A 119	29.789	73.561	40.316	1.00	12.85	A	C
ATOM	912	CB THR A 119	29.224	72.205	39.840	1.00	13.42	A	C
ATOM	913	OG1 THR A 119	28.398	71.647	40.869	1.00	11.57	A	O
ATOM	914	CG2 THR A 119	30.353	71.235	39.509	1.00	13.13	A	C
ATOM	915	C THR A 119	30.808	74.050	39.298	1.00	12.99	A	C
ATOM	916	O THR A 119	32.016	74.004	39.547	1.00	13.76	A	O
ATOM	917	N ILE A 120	30.323	74.520	38.154	1.00	11.88	A	N
ATOM	918	CA ILE A 120	31.213	75.003	37.103	1.00	13.74	A	C
ATOM	919	CB ILE A 120	30.419	75.310	35.807	1.00	13.41	A	C
ATOM	920	CG2 ILE A 120	31.321	75.980	34.769	1.00	14.31	A	C
ATOM	921	CG1 ILE A 120	29.799	74.012	35.266	1.00	14.49	A	C
ATOM	922	CD1 ILE A 120	30.786	72.862	35.086	1.00	12.48	A	C
ATOM	923	C ILE A 120	31.977	76.246	37.547	1.00	16.55	A	C
ATOM	924	O ILE A 120	33.192	76.337	37.372	1.00	18.38	A	O
ATOM	925	N GLN A 121	31.257	77.200	38.126	1.00	19.17	A	N
ATOM	926	CA GLN A 121	31.861	78.437	38.601	1.00	20.47	A	C
ATOM	927	CB GLN A 121	30.790	79.302	39.275	1.00	22.58	A	C
ATOM	928	CG GLN A 121	31.332	80.406	40.175	1.00	27.23	A	C
ATOM	929	CD GLN A 121	30.251	81.377	40.627	1.00	30.53	A	C
ATOM	930	OE1 GLN A 121	30.383	82.030	41.664	1.00	32.67	A	O
ATOM	931	NE2 GLN A 121	29.185	81.486	39.842	1.00	28.50	A	N
ATOM	932	C GLN A 121	33.012	78.170	39.570	1.00	20.02	A	C
ATOM	933	O GLN A 121	33.979	78.931	39.622	1.00	20.38	A	O
ATOM	934	N SER A 122	32.905	77.082	40.326	1.00	20.65	A	N
ATOM	935	CA SER A 122	33.919	76.709	41.311	1.00	19.01	A	C
ATOM	936	CB SER A 122	33.377	75.609	42.222	1.00	17.57	A	C
ATOM	937	OG SER A 122	33.446	74.356	41.556	1.00	13.49	A	O
ATOM	938	C SER A 122	35.220	76.201	40.686	1.00	18.75	A	C

Figure 5R

ATOM	939	O	SER A 122	36.270	76.232	41.325	1.00	17.22	A	O
ATOM	940	N	ASN A 123	35.136	75.709	39.454	1.00	18.64	A	N
ATOM	941	CA	ASN A 123	36.292	75.159	38.752	1.00	19.81	A	C
ATOM	942	CB	ASN A 123	37.355	76.237	38.538	1.00	23.62	A	C
ATOM	943	CG	ASN A 123	36.915	77.277	37.537	1.00	27.79	A	C
ATOM	944	OD1	ASN A 123	36.375	76.939	36.483	1.00	25.00	A	O
ATOM	945	ND2	ASN A 123	37.141	78.549	37.855	1.00	30.06	A	N
ATOM	946	C	ASN A 123	36.898	73.967	39.487	1.00	18.35	A	C
ATOM	947	O	ASN A 123	38.057	73.606	39.272	1.00	15.93	A	O
ATOM	948	N	ALA A 124	36.101	73.356	40.356	1.00	16.83	A	N
ATOM	949	CA	ALA A 124	36.550	72.197	41.113	1.00	18.02	A	C
ATOM	950	CB	ALA A 124	35.392	71.613	41.914	1.00	17.02	A	C
ATOM	951	C	ALA A 124	37.109	71.148	40.157	1.00	16.55	A	C
ATOM	952	O	ALA A 124	38.195	70.614	40.376	1.00	17.86	A	O
ATOM	953	N	TYR A 125	36.370	70.858	39.091	1.00	15.55	A	N
ATOM	954	CA	TYR A 125	36.817	69.870	38.121	1.00	15.38	A	C
ATOM	955	CB	TYR A 125	35.699	69.549	37.125	1.00	14.36	A	C
ATOM	956	CG	TYR A 125	34.638	68.609	37.662	1.00	15.54	A	C
ATOM	957	CD1	TYR A 125	33.460	69.096	38.226	1.00	13.69	A	C
ATOM	958	CE1	TYR A 125	32.478	68.230	38.701	1.00	16.51	A	C
ATOM	959	CD2	TYR A 125	34.813	67.224	37.591	1.00	15.03	A	C
ATOM	960	CE2	TYR A 125	33.839	66.349	38.064	1.00	16.83	A	C
ATOM	961	CZ	TYR A 125	32.677	66.857	38.614	1.00	15.95	A	C
ATOM	962	OH	TYR A 125	31.718	65.993	39.065	1.00	16.50	A	O
ATOM	963	C	TYR A 125	38.060	70.323	37.361	1.00	15.65	A	C
ATOM	964	O	TYR A 125	39.050	69.596	37.289	1.00	12.18	A	O
ATOM	965	N	ASP A 126	37.998	71.523	36.796	1.00	15.04	A	N
ATOM	966	CA	ASP A 126	39.110	72.080	36.032	1.00	19.15	A	C
ATOM	967	CB	ASP A 126	38.805	73.530	35.642	1.00	18.87	A	C
ATOM	968	CG	ASP A 126	37.532	73.659	34.831	1.00	21.01	A	C
ATOM	969	OD1	ASP A 126	36.489	73.129	35.271	1.00	22.54	A	O
ATOM	970	OD2	ASP A 126	37.570	74.295	33.756	1.00	22.03	A	O
ATOM	971	C	ASP A 126	40.423	72.028	36.814	1.00	19.26	A	C
ATOM	972	O	ASP A 126	41.432	71.519	36.316	1.00	19.31	A	O
ATOM	973	N	ASN A 127	40.406	72.542	38.040	1.00	18.32	A	N
ATOM	974	CA	ASN A 127	41.613	72.549	38.860	1.00	20.39	A	C
ATOM	975	CB	ASN A 127	41.349	73.226	40.206	1.00	19.27	A	C
ATOM	976	CG	ASN A 127	41.031	74.703	40.067	1.00	23.43	A	C
ATOM	977	OD1	ASN A 127	41.553	75.382	39.185	1.00	25.20	A	O
ATOM	978	ND2	ASN A 127	40.185	75.213	40.955	1.00	22.93	A	N
ATOM	979	C	ASN A 127	42.183	71.155	39.096	1.00	19.69	A	C
ATOM	980	O	ASN A 127	43.381	70.926	38.926	1.00	19.93	A	O
ATOM	981	N	ALA A 128	41.325	70.222	39.488	1.00	17.80	A	N
ATOM	982	CA	ALA A 128	41.767	68.862	39.742	1.00	19.25	A	C
ATOM	983	CB	ALA A 128	40.596	68.016	40.218	1.00	17.14	A	C
ATOM	984	C	ALA A 128	42.383	68.253	38.489	1.00	18.99	A	C
ATOM	985	O	ALA A 128	43.434	67.614	38.553	1.00	21.03	A	O
ATOM	986	N	LEU A 129	41.734	68.456	37.347	1.00	18.35	A	N
ATOM	987	CA	LEU A 129	42.237	67.911	36.088	1.00	18.37	A	C
ATOM	988	CB	LEU A 129	41.229	68.157	34.966	1.00	16.99	A	C
ATOM	989	CG	LEU A 129	39.944	67.331	35.044	1.00	17.37	A	C
ATOM	990	CD1	LEU A 129	38.906	67.908	34.101	1.00	18.55	A	C
ATOM	991	CD2	LEU A 129	40.247	65.878	34.690	1.00	19.31	A	C
ATOM	992	C	LEU A 129	43.586	68.512	35.709	1.00	18.69	A	C
ATOM	993	O	LEU A 129	44.486	67.799	35.264	1.00	16.61	A	O
ATOM	994	N	LYS A 130	43.722	69.823	35.881	1.00	20.51	A	N
ATOM	995	CA	LYS A 130	44.974	70.492	35.559	1.00	25.95	A	C
ATOM	996	CB	LYS A 130	44.869	72.002	35.815	1.00	29.56	A	C

Figure 5S

ATOM	997	CG	LYS A 130	44.065	72.756	34.766	1.00	35.38	A	C
ATOM	998	CD	LYS A 130	44.211	74.273	34.910	1.00	40.67	A	C
ATOM	999	CE	LYS A 130	43.491	74.796	36.138	1.00	44.58	A	C
ATOM	1000	NZ	LYS A 130	42.021	74.573	36.036	1.00	48.51	A	N
ATOM	1001	C	LYS A 130	46.084	69.899	36.413	1.00	27.20	A	C
ATOM	1002	O	LYS A 130	47.173	69.607	35.921	1.00	26.83	A	O
ATOM	1003	N	GLN A 131	45.793	69.711	37.695	1.00	27.73	A	N
ATOM	1004	CA	GLN A 131	46.768	69.152	38.615	1.00	30.51	A	C
ATOM	1005	CB	GLN A 131	46.168	69.058	40.017	1.00	34.61	A	C
ATOM	1006	CG	GLN A 131	47.164	68.658	41.086	1.00	44.44	A	C
ATOM	1007	CD	GLN A 131	46.499	68.364	42.414	1.00	49.85	A	C
ATOM	1008	OE1	GLN A 131	45.721	67.415	42.532	1.00	53.57	A	O
ATOM	1009	NE2	GLN A 131	46.797	69.181	43.423	1.00	52.59	A	N
ATOM	1010	C	GLN A 131	47.205	67.769	38.139	1.00	29.59	A	C
ATOM	1011	O	GLN A 131	48.333	67.347	38.389	1.00	27.34	A	O
ATOM	1012	N	GLN A 132	46.311	67.066	37.452	1.00	27.34	A	N
ATOM	1013	CA	GLN A 132	46.634	65.738	36.950	1.00	28.50	A	C
ATOM	1014	CB	GLN A 132	45.382	64.865	36.894	1.00	30.13	A	C
ATOM	1015	CG	GLN A 132	44.863	64.445	38.253	1.00	32.88	A	C
ATOM	1016	CD	GLN A 132	45.924	63.758	39.093	1.00	36.97	A	C
ATOM	1017	OE1	GLN A 132	46.545	62.787	38.659	1.00	36.12	A	O
ATOM	1018	NE2	GLN A 132	46.136	64.262	40.308	1.00	36.40	A	N
ATOM	1019	C	GLN A 132	47.297	65.764	35.579	1.00	26.54	A	C
ATOM	1020	O	GLN A 132	47.465	64.721	34.948	1.00	25.99	A	O
ATOM	1021	N	GLY A 133	47.653	66.958	35.113	1.00	25.65	A	N
ATOM	1022	CA	GLY A 133	48.326	67.079	33.833	1.00	25.61	A	C
ATOM	1023	C	GLY A 133	47.496	67.252	32.575	1.00	26.98	A	C
ATOM	1024	O	GLY A 133	48.061	67.293	31.479	1.00	25.64	A	O
ATOM	1025	N	TYR A 134	46.174	67.353	32.696	1.00	25.10	A	N
ATOM	1026	CA	TYR A 134	45.357	67.526	31.495	1.00	24.59	A	C
ATOM	1027	CB	TYR A 134	43.902	67.120	31.762	1.00	20.44	A	C
ATOM	1028	CG	TYR A 134	43.781	65.626	31.951	1.00	19.78	A	C
ATOM	1029	CD1	TYR A 134	43.870	65.050	33.219	1.00	21.76	A	C
ATOM	1030	CE1	TYR A 134	43.868	63.664	33.380	1.00	19.57	A	C
ATOM	1031	CD2	TYR A 134	43.681	64.774	30.850	1.00	19.08	A	C
ATOM	1032	CE2	TYR A 134	43.682	63.389	31.002	1.00	17.24	A	C
ATOM	1033	CZ	TYR A 134	43.777	62.842	32.265	1.00	18.47	A	C
ATOM	1034	OH	TYR A 134	43.792	61.473	32.413	1.00	19.23	A	O
ATOM	1035	C	TYR A 134	45.461	68.951	30.972	1.00	22.87	A	C
ATOM	1036	O	TYR A 134	45.446	69.908	31.746	1.00	22.48	A	O
ATOM	1037	N	LEU A 135	45.571	69.078	29.650	1.00	22.86	A	N
ATOM	1038	CA	LEU A 135	45.750	70.377	29.008	1.00	24.08	A	C
ATOM	1039	CB	LEU A 135	47.048	70.359	28.192	1.00	24.76	A	C
ATOM	1040	CG	LEU A 135	48.311	69.857	28.906	1.00	25.95	A	C
ATOM	1041	CD1	LEU A 135	49.461	69.790	27.913	1.00	27.98	A	C
ATOM	1042	CD2	LEU A 135	48.658	70.779	30.068	1.00	26.13	A	C
ATOM	1043	C	LEU A 135	44.628	70.873	28.107	1.00	23.53	A	C
ATOM	1044	O	LEU A 135	44.736	71.957	27.539	1.00	24.90	A	O
ATOM	1045	N	ASN A 136	43.556	70.100	27.970	1.00	22.37	A	N
ATOM	1046	CA	ASN A 136	42.450	70.499	27.102	1.00	20.74	A	C
ATOM	1047	CB	ASN A 136	42.411	69.585	25.876	1.00	21.50	A	C
ATOM	1048	CG	ASN A 136	41.613	70.170	24.735	1.00	23.18	A	C
ATOM	1049	OD1	ASN A 136	40.590	70.822	24.945	1.00	25.29	A	O
ATOM	1050	ND2	ASN A 136	42.068	69.923	23.511	1.00	23.17	A	N
ATOM	1051	C	ASN A 136	41.146	70.370	27.887	1.00	20.55	A	C
ATOM	1052	O	ASN A 136	40.430	69.386	27.744	1.00	20.93	A	O
ATOM	1053	N	ILE A 137	40.847	71.371	28.709	1.00	19.65	A	N
ATOM	1054	CA	ILE A 137	39.649	71.347	29.545	1.00	19.51	A	C

Figure 5T

ATOM	1055	CB ILE A 137	40.021	71.504	31.032	1.00	19.77	A	C
ATOM	1056	CG2 ILE A 137	38.792	71.235	31.905	1.00	18.91	A	C
ATOM	1057	CG1 ILE A 137	41.165	70.548	31.388	1.00	17.50	A	C
ATOM	1058	CD1 ILE A 137	41.841	70.877	32.705	1.00	17.99	A	C
ATOM	1059	C ILE A 137	38.650	72.445	29.214	1.00	18.94	A	C
ATOM	1060	O ILE A 137	39.008	73.618	29.141	1.00	18.47	A	O
ATOM	1061	N SER A 138	37.394	72.054	29.019	1.00	18.59	A	N
ATOM	1062	CA SER A 138	36.319	73.000	28.729	1.00	19.77	A	C
ATOM	1063	CB SER A 138	35.810	72.829	27.294	1.00	21.73	A	C
ATOM	1064	OG SER A 138	36.823	73.104	26.345	1.00	24.47	A	O
ATOM	1065	C SER A 138	35.177	72.716	29.698	1.00	19.64	A	C
ATOM	1066	O SER A 138	34.971	71.569	30.102	1.00	20.10	A	O
ATOM	1067	N HIS A 139	34.443	73.753	30.083	1.00	18.51	A	N
ATOM	1068	CA HIS A 139	33.319	73.565	30.993	1.00	18.98	A	C
ATOM	1069	CB HIS A 139	33.697	73.982	32.418	1.00	18.17	A	C
ATOM	1070	CG HIS A 139	34.220	75.380	32.522	1.00	19.94	A	C
ATOM	1071	CD2 HIS A 139	33.634	76.575	32.268	1.00	20.85	A	C
ATOM	1072	ND1 HIS A 139	35.506	75.661	32.926	1.00	20.98	A	N
ATOM	1073	CE1 HIS A 139	35.692	76.970	32.916	1.00	24.03	A	C
ATOM	1074	NE2 HIS A 139	34.572	77.547	32.520	1.00	22.03	A	N
ATOM	1075	C HIS A 139	32.082	74.329	30.552	1.00	18.46	A	C
ATOM	1076	O HIS A 139	32.181	75.372	29.909	1.00	19.58	A	O
ATOM	1077	N LEU A 140	30.918	73.791	30.902	1.00	18.71	A	N
ATOM	1078	CA LEU A 140	29.634	74.403	30.573	1.00	19.01	A	C
ATOM	1079	CB LEU A 140	29.028	73.775	29.316	1.00	20.85	A	C
ATOM	1080	CG LEU A 140	29.476	74.190	27.918	1.00	22.92	A	C
ATOM	1081	CD1 LEU A 140	28.667	73.394	26.904	1.00	21.79	A	C
ATOM	1082	CD2 LEU A 140	29.255	75.688	27.709	1.00	25.42	A	C
ATOM	1083	C LEU A 140	28.632	74.227	31.702	1.00	17.69	A	C
ATOM	1084	O LEU A 140	28.422	73.118	32.194	1.00	17.06	A	O
ATOM	1085	N ALA A 141	28.008	75.322	32.112	1.00	18.99	A	N
ATOM	1086	CA ALA A 141	26.995	75.256	33.153	1.00	18.92	A	C
ATOM	1087	CB ALA A 141	26.976	76.553	33.955	1.00	19.92	A	C
ATOM	1088	C ALA A 141	25.653	75.046	32.456	1.00	20.05	A	C
ATOM	1089	O ALA A 141	25.002	76.007	32.053	1.00	22.92	A	O
ATOM	1090	N THR A 142	25.250	73.790	32.299	1.00	17.67	A	N
ATOM	1091	CA THR A 142	23.983	73.456	31.650	1.00	15.92	A	C
ATOM	1092	CB THR A 142	24.069	72.061	30.991	1.00	15.55	A	C
ATOM	1093	OG1 THR A 142	24.474	71.094	31.969	1.00	15.28	A	O
ATOM	1094	CG2 THR A 142	25.091	72.069	29.862	1.00	16.16	A	C
ATOM	1095	C THR A 142	22.890	73.462	32.725	1.00	16.51	A	C
ATOM	1096	O THR A 142	22.195	72.469	32.942	1.00	15.07	A	O
ATOM	1097	N SER A 143	22.746	74.608	33.382	1.00	15.40	A	N
ATOM	1098	CA SER A 143	21.797	74.779	34.479	1.00	16.69	A	C
ATOM	1099	CB SER A 143	21.745	76.254	34.886	1.00	18.40	A	C
ATOM	1100	OG SER A 143	20.979	76.419	36.068	1.00	19.14	A	O
ATOM	1101	C SER A 143	20.374	74.259	34.266	1.00	16.28	A	C
ATOM	1102	O SER A 143	19.838	73.555	35.119	1.00	17.50	A	O
ATOM	1103	N LEU A 144	19.766	74.597	33.133	1.00	15.61	A	N
ATOM	1104	CA LEU A 144	18.397	74.174	32.850	1.00	16.29	A	C
ATOM	1105	CB LEU A 144	17.920	74.855	31.567	1.00	18.23	A	C
ATOM	1106	CG LEU A 144	17.915	76.379	31.743	1.00	21.65	A	C
ATOM	1107	CD1 LEU A 144	17.543	77.079	30.440	1.00	21.02	A	C
ATOM	1108	CD2 LEU A 144	16.931	76.741	32.854	1.00	19.77	A	C
ATOM	1109	C LEU A 144	18.171	72.657	32.772	1.00	15.16	A	C
ATOM	1110	O LEU A 144	17.036	72.184	32.874	1.00	13.64	A	O
ATOM	1111	N PHE A 145	19.238	71.888	32.600	1.00	13.93	A	N
ATOM	1112	CA PHE A 145	19.080	70.437	32.545	1.00	11.95	A	C

Figure 5U

ATOM	1113	CB	PHE A 145	20.436	69.742	32.374	1.00	13.43	A	C
ATOM	1114	CG	PHE A 145	21.000	69.808	30.976	1.00	17.43	A	C
ATOM	1115	CD1	PHE A 145	22.248	69.260	30.703	1.00	15.45	A	C
ATOM	1116	CD2	PHE A 145	20.287	70.399	29.933	1.00	17.04	A	C
ATOM	1117	CE1	PHE A 145	22.783	69.295	29.420	1.00	18.35	A	C
ATOM	1118	CE2	PHE A 145	20.815	70.440	28.642	1.00	15.38	A	C
ATOM	1119	CZ	PHE A 145	22.064	69.889	28.385	1.00	16.89	A	C
ATOM	1120	C	PHE A 145	18.436	69.956	33.846	1.00	12.03	A	C
ATOM	1121	O	PHE A 145	17.600	69.064	33.839	1.00	11.95	A	O
ATOM	1122	N	VAL A 146	18.813	70.564	34.965	1.00	12.43	A	N
ATOM	1123	CA	VAL A 146	18.269	70.150	36.255	1.00	11.55	A	C
ATOM	1124	CB	VAL A 146	18.931	70.941	37.420	1.00	11.44	A	C
ATOM	1125	CG1	VAL A 146	18.203	70.669	38.739	1.00	12.27	A	C
ATOM	1126	CG2	VAL A 146	20.389	70.523	37.541	1.00	12.17	A	C
ATOM	1127	C	VAL A 146	16.741	70.243	36.344	1.00	13.17	A	C
ATOM	1128	O	VAL A 146	16.081	69.236	36.566	1.00	13.35	A	O
ATOM	1129	N	PRO A 147	16.157	71.442	36.168	1.00	14.55	A	N
ATOM	1130	CD	PRO A 147	16.725	72.794	36.014	1.00	12.51	A	C
ATOM	1131	CA	PRO A 147	14.693	71.491	36.260	1.00	15.45	A	C
ATOM	1132	CB	PRO A 147	14.386	72.995	36.197	1.00	16.91	A	C
ATOM	1133	CG	PRO A 147	15.556	73.569	35.463	1.00	13.21	A	C
ATOM	1134	C	PRO A 147	13.972	70.682	35.178	1.00	13.90	A	C
ATOM	1135	O	PRO A 147	12.910	70.111	35.433	1.00	15.62	A	O
ATOM	1136	N	LEU A 148	14.549	70.614	33.982	1.00	11.79	A	N
ATOM	1137	CA	LEU A 148	13.929	69.844	32.911	1.00	13.83	A	C
ATOM	1138	CB	LEU A 148	14.748	69.947	31.620	1.00	15.89	A	C
ATOM	1139	CG	LEU A 148	14.193	70.877	30.540	1.00	14.82	A	C
ATOM	1140	CD1	LEU A 148	14.146	72.296	31.057	1.00	18.80	A	C
ATOM	1141	CD2	LEU A 148	15.070	70.792	29.300	1.00	16.16	A	C
ATOM	1142	C	LEU A 148	13.833	68.389	33.336	1.00	13.84	A	C
ATOM	1143	O	LEU A 148	12.786	67.755	33.204	1.00	15.22	A	O
ATOM	1144	N	ILE A 149	14.935	67.872	33.861	1.00	12.81	A	N
ATOM	1145	CA	ILE A 149	14.985	66.493	34.312	1.00	13.21	A	C
ATOM	1146	CB	ILE A 149	16.425	66.111	34.703	1.00	14.51	A	C
ATOM	1147	CG2	ILE A 149	16.444	64.756	35.402	1.00	12.63	A	C
ATOM	1148	CG1	ILE A 149	17.291	66.093	33.434	1.00	15.10	A	C
ATOM	1149	CD1	ILE A 149	18.777	65.893	33.673	1.00	10.57	A	C
ATOM	1150	C	ILE A 149	14.026	66.258	35.470	1.00	14.45	A	C
ATOM	1151	O	ILE A 149	13.425	65.195	35.571	1.00	15.79	A	O
ATOM	1152	N	GLU A 150	13.859	67.256	36.328	1.00	14.06	A	N
ATOM	1153	CA	GLU A 150	12.943	67.121	37.449	1.00	15.01	A	C
ATOM	1154	CB	GLU A 150	13.206	68.228	38.466	1.00	18.77	A	C
ATOM	1155	CG	GLU A 150	14.447	67.930	39.291	1.00	26.06	A	C
ATOM	1156	CD	GLU A 150	14.824	69.044	40.227	1.00	28.16	A	C
ATOM	1157	OE1	GLU A 150	15.731	68.821	41.056	1.00	26.46	A	O
ATOM	1158	OE2	GLU A 150	14.222	70.138	40.128	1.00	31.52	A	O
ATOM	1159	C	GLU A 150	11.481	67.116	37.000	1.00	15.40	A	C
ATOM	1160	O	GLU A 150	10.615	66.617	37.719	1.00	14.17	A	O
ATOM	1161	N	GLU A 151	11.212	67.680	35.822	1.00	13.23	A	N
ATOM	1162	CA	GLU A 151	9.860	67.703	35.265	1.00	15.55	A	C
ATOM	1163	CB	GLU A 151	9.619	68.971	34.442	1.00	16.54	A	C
ATOM	1164	CG	GLU A 151	9.533	70.248	35.267	1.00	20.37	A	C
ATOM	1165	CD	GLU A 151	8.528	70.151	36.401	1.00	23.39	A	C
ATOM	1166	OE1	GLU A 151	7.332	69.901	36.134	1.00	24.54	A	O
ATOM	1167	OE2	GLU A 151	8.937	70.326	37.566	1.00	27.18	A	O
ATOM	1168	C	GLU A 151	9.687	66.487	34.368	1.00	17.22	A	C
ATOM	1169	O	GLU A 151	8.668	66.331	33.687	1.00	16.37	A	O
ATOM	1170	N	SER A 152	10.702	65.632	34.376	1.00	18.04	A	N

Figure 5V

ATOM	1171	CA	SER A 152	10.722	64.413	33.578	1.00	18.02	A	C
ATOM	1172	CB	SER A 152	9.559	63.493	33.949	1.00	19.94	A	C
ATOM	1173	OG	SER A 152	9.768	62.207	33.390	1.00	18.81	A	O
ATOM	1174	C	SER A 152	10.699	64.673	32.081	1.00	20.44	A	C
ATOM	1175	O	SER A 152	10.013	63.980	31.323	1.00	22.59	A	O
ATOM	1176	N	ILE A 153	11.443	65.682	31.653	1.00	19.73	A	N
ATOM	1177	CA	ILE A 153	11.541	65.998	30.239	1.00	21.13	A	C
ATOM	1178	CB	ILE A 153	11.541	67.521	30.016	1.00	23.26	A	C
ATOM	1179	CG2	ILE A 153	11.800	67.846	28.546	1.00	22.78	A	C
ATOM	1180	CG1	ILE A 153	10.190	68.086	30.474	1.00	25.17	A	C
ATOM	1181	CD1	ILE A 153	10.005	69.547	30.207	1.00	30.23	A	C
ATOM	1182	C	ILE A 153	12.865	65.372	29.832	1.00	21.67	A	C
ATOM	1183	O	ILE A 153	13.900	66.037	29.784	1.00	20.32	A	O
ATOM	1184	N	LEU A 154	12.811	64.069	29.565	1.00	18.75	A	N
ATOM	1185	CA	LEU A 154	13.986	63.281	29.218	1.00	20.85	A	C
ATOM	1186	CB	LEU A 154	13.939	61.972	30.003	1.00	21.22	A	C
ATOM	1187	CG	LEU A 154	13.540	62.197	31.467	1.00	22.53	A	C
ATOM	1188	CD1	LEU A 154	13.353	60.868	32.182	1.00	21.31	A	C
ATOM	1189	CD2	LEU A 154	14.604	63.040	32.154	1.00	20.71	A	C
ATOM	1190	C	LEU A 154	14.131	62.994	27.726	1.00	21.27	A	C
ATOM	1191	O	LEU A 154	14.969	62.194	27.313	1.00	20.75	A	O
ATOM	1192	N	GLU A 155	13.302	63.649	26.927	1.00	23.77	A	N
ATOM	1193	CA	GLU A 155	13.333	63.499	25.478	1.00	26.10	A	C
ATOM	1194	CB	GLU A 155	12.948	62.069	25.074	1.00	30.66	A	C
ATOM	1195	CG	GLU A 155	11.661	61.554	25.686	1.00	38.37	A	C
ATOM	1196	CD	GLU A 155	10.445	61.898	24.860	1.00	42.76	A	C
ATOM	1197	OE1	GLU A 155	9.322	61.571	25.299	1.00	48.12	A	O
ATOM	1198	OE2	GLU A 155	10.609	62.488	23.771	1.00	46.52	A	O
ATOM	1199	C	GLU A 155	12.366	64.517	24.893	1.00	24.72	A	C
ATOM	1200	O	GLU A 155	11.759	65.288	25.633	1.00	23.59	A	O
ATOM	1201	N	GLY A 156	12.236	64.538	23.573	1.00	23.02	A	N
ATOM	1202	CA	GLY A 156	11.333	65.492	22.958	1.00	21.08	A	C
ATOM	1203	C	GLY A 156	12.047	66.742	22.485	1.00	22.30	A	C
ATOM	1204	O	GLY A 156	13.243	66.925	22.728	1.00	21.15	A	O
ATOM	1205	N	GLU A 157	11.299	67.612	21.817	1.00	20.99	A	N
ATOM	1206	CA	GLU A 157	11.847	68.844	21.268	1.00	22.12	A	C
ATOM	1207	CB	GLU A 157	10.786	69.539	20.412	1.00	25.41	A	C
ATOM	1208	CG	GLU A 157	11.366	70.505	19.398	1.00	32.26	A	C
ATOM	1209	CD	GLU A 157	10.304	71.341	18.720	1.00	37.00	A	C
ATOM	1210	OE1	GLU A 157	9.332	70.758	18.186	1.00	41.42	A	O
ATOM	1211	OE2	GLU A 157	10.443	72.583	18.719	1.00	39.91	A	O
ATOM	1212	C	GLU A 157	12.386	69.835	22.302	1.00	19.65	A	C
ATOM	1213	O	GLU A 157	13.377	70.518	22.053	1.00	18.65	A	O
ATOM	1214	N	LEU A 158	11.734	69.925	23.453	1.00	18.49	A	N
ATOM	1215	CA	LEU A 158	12.172	70.861	24.485	1.00	20.02	A	C
ATOM	1216	CB	LEU A 158	11.174	70.870	25.653	1.00	19.53	A	C
ATOM	1217	CG	LEU A 158	11.410	71.891	26.773	1.00	21.01	A	C
ATOM	1218	CD1	LEU A 158	11.661	73.280	26.191	1.00	20.32	A	C
ATOM	1219	CD2	LEU A 158	10.197	71.910	27.697	1.00	19.63	A	C
ATOM	1220	C	LEU A 158	13.581	70.529	24.976	1.00	17.50	A	C
ATOM	1221	O	LEU A 158	14.424	71.417	25.101	1.00	17.99	A	O
ATOM	1222	N	LEU A 159	13.846	69.253	25.240	1.00	18.72	A	N
ATOM	1223	CA	LEU A 159	15.180	68.856	25.693	1.00	17.84	A	C
ATOM	1224	CB	LEU A 159	15.202	67.377	26.105	1.00	17.62	A	C
ATOM	1225	CG	LEU A 159	16.585	66.818	26.488	1.00	16.01	A	C
ATOM	1226	CD1	LEU A 159	17.125	67.557	27.713	1.00	16.76	A	C
ATOM	1227	CD2	LEU A 159	16.478	65.324	26.775	1.00	16.92	A	C
ATOM	1228	C	LEU A 159	16.185	69.091	24.571	1.00	18.06	A	C

Figure 5W

ATOM	1229	O	LEU A 159	17.274	69.629	24.792	1.00	15.90	A	O
ATOM	1230	N	GLU A 160	15.805	68.686	23.363	1.00	17.23	A	N
ATOM	1231	CA	GLU A 160	16.660	68.846	22.199	1.00	19.74	A	C
ATOM	1232	CB	GLU A 160	15.936	68.322	20.951	1.00	22.63	A	C
ATOM	1233	CG	GLU A 160	16.613	68.624	19.612	1.00	25.09	A	C
ATOM	1234	CD	GLU A 160	18.020	68.058	19.496	1.00	28.46	A	C
ATOM	1235	OE1	GLU A 160	18.320	67.041	20.156	1.00	24.99	A	O
ATOM	1236	OE2	GLU A 160	18.824	68.626	18.725	1.00	29.33	A	O
ATOM	1237	C	GLU A 160	17.025	70.316	22.023	1.00	17.75	A	C
ATOM	1238	O	GLU A 160	18.188	70.655	21.795	1.00	17.75	A	O
ATOM	1239	N	THR A 161	16.031	71.188	22.140	1.00	15.91	A	N
ATOM	1240	CA	THR A 161	16.274	72.615	21.984	1.00	17.08	A	C
ATOM	1241	CB	THR A 161	14.955	73.402	21.946	1.00	19.03	A	C
ATOM	1242	OG1	THR A 161	14.165	72.943	20.841	1.00	18.83	A	O
ATOM	1243	CG2	THR A 161	15.225	74.888	21.770	1.00	18.63	A	C
ATOM	1244	C	THR A 161	17.159	73.154	23.104	1.00	16.80	A	C
ATOM	1245	O	THR A 161	17.998	74.029	22.875	1.00	16.81	A	O
ATOM	1246	N	CYS A 162	16.977	72.623	24.309	1.00	15.47	A	N
ATOM	1247	CA	CYS A 162	17.772	73.054	25.451	1.00	16.48	A	C
ATOM	1248	CB	CYS A 162	17.217	72.456	26.748	1.00	17.44	A	C
ATOM	1249	SG	CYS A 162	17.994	73.125	28.246	1.00	17.16	A	S
ATOM	1250	C	CYS A 162	19.226	72.624	25.264	1.00	16.12	A	C
ATOM	1251	O	CYS A 162	20.148	73.390	25.547	1.00	15.64	A	O
ATOM	1252	N	MET A 163	19.433	71.395	24.797	1.00	16.12	A	N
ATOM	1253	CA	MET A 163	20.792	70.913	24.578	1.00	16.90	A	C
ATOM	1254	CB	MET A 163	20.796	69.446	24.152	1.00	17.54	A	C
ATOM	1255	CG	MET A 163	20.259	68.491	25.198	1.00	18.15	A	C
ATOM	1256	SD	MET A 163	20.679	66.775	24.864	1.00	18.78	A	S
ATOM	1257	CE	MET A 163	19.539	66.408	23.514	1.00	18.51	A	C
ATOM	1258	C	MET A 163	21.427	71.760	23.483	1.00	16.80	A	C
ATOM	1259	O	MET A 163	22.601	72.109	23.554	1.00	17.90	A	O
ATOM	1260	N	HIS A 164	20.637	72.083	22.467	1.00	17.35	A	N
ATOM	1261	CA	HIS A 164	21.119	72.893	21.359	1.00	18.77	A	C
ATOM	1262	CB	HIS A 164	20.009	73.065	20.317	1.00	21.03	A	C
ATOM	1263	CG	HIS A 164	20.451	73.784	19.082	1.00	26.61	A	C
ATOM	1264	CD2	HIS A 164	20.862	73.317	17.879	1.00	27.02	A	C
ATOM	1265	ND1	HIS A 164	20.559	75.156	19.018	1.00	26.82	A	N
ATOM	1266	CE1	HIS A 164	21.020	75.503	17.829	1.00	28.20	A	C
ATOM	1267	NE2	HIS A 164	21.212	74.406	17.119	1.00	26.69	A	N
ATOM	1268	C	HIS A 164	21.573	74.249	21.872	1.00	17.93	A	C
ATOM	1269	O	HIS A 164	22.630	74.758	21.483	1.00	18.32	A	O
ATOM	1270	N	TYR A 165	20.775	74.821	22.765	1.00	16.78	A	N
ATOM	1271	CA	TYR A 165	21.073	76.120	23.352	1.00	17.03	A	C
ATOM	1272	CB	TYR A 165	20.004	76.486	24.383	1.00	16.70	A	C
ATOM	1273	CG	TYR A 165	20.323	77.728	25.186	1.00	14.36	A	C
ATOM	1274	CD1	TYR A 165	20.249	78.998	24.611	1.00	18.03	A	C
ATOM	1275	CE1	TYR A 165	20.567	80.144	25.350	1.00	17.68	A	C
ATOM	1276	CD2	TYR A 165	20.722	77.633	26.518	1.00	15.98	A	C
ATOM	1277	CE2	TYR A 165	21.042	78.767	27.263	1.00	15.67	A	C
ATOM	1278	CZ	TYR A 165	20.964	80.015	26.675	1.00	17.67	A	C
ATOM	1279	OH	TYR A 165	21.296	81.128	27.414	1.00	19.35	A	O
ATOM	1280	C	TYR A 165	22.440	76.144	24.025	1.00	18.18	A	C
ATOM	1281	O	TYR A 165	23.202	77.089	23.848	1.00	18.56	A	O
ATOM	1282	N	TYR A 166	22.745	75.101	24.795	1.00	16.65	A	N
ATOM	1283	CA	TYR A 166	24.016	75.022	25.516	1.00	16.14	A	C
ATOM	1284	CB	TYR A 166	23.879	74.113	26.745	1.00	15.22	A	C
ATOM	1285	CG	TYR A 166	23.063	74.681	27.887	1.00	14.44	A	C
ATOM	1286	CD1	TYR A 166	21.955	73.994	28.380	1.00	13.39	A	C

Figure 5X

ATOM	1287	CE1 TYR A 166	21.202	74.506	29.438	1.00	14.31	A	C
ATOM	1288	CD2 TYR A 166	23.403	75.898	28.481	1.00	14.07	A	C
ATOM	1289	CE2 TYR A 166	22.660	76.419	29.537	1.00	13.27	A	C
ATOM	1290	CZ TYR A 166	21.558	75.717	30.008	1.00	15.59	A	C
ATOM	1291	OH TYR A 166	20.800	76.228	31.033	1.00	13.70	A	O
ATOM	1292	C TYR A 166	25.207	74.520	24.710	1.00	16.15	A	C
ATOM	1293	O TYR A 166	26.320	75.020	24.862	1.00	18.32	A	O
ATOM	1294	N PHE A 167	24.977	73.532	23.858	1.00	16.40	A	N
ATOM	1295	CA PHE A 167	26.063	72.926	23.099	1.00	19.32	A	C
ATOM	1296	CB PHE A 167	25.696	71.466	22.811	1.00	18.55	A	C
ATOM	1297	CG PHE A 167	25.487	70.633	24.056	1.00	17.57	A	C
ATOM	1298	CD1 PHE A 167	24.611	69.551	24.044	1.00	17.73	A	C
ATOM	1299	CD2 PHE A 167	26.179	70.920	25.232	1.00	17.53	A	C
ATOM	1300	CE1 PHE A 167	24.429	68.766	25.186	1.00	17.59	A	C
ATOM	1301	CE2 PHE A 167	26.005	70.140	26.378	1.00	15.09	A	C
ATOM	1302	CZ PHE A 167	25.130	69.063	26.354	1.00	15.31	A	C
ATOM	1303	C PHE A 167	26.517	73.613	21.810	1.00	21.91	A	C
ATOM	1304	O PHE A 167	27.693	73.529	21.444	1.00	18.63	A	O
ATOM	1305	N THR A 168	25.600	74.293	21.128	1.00	23.53	A	N
ATOM	1306	CA THR A 168	25.940	74.958	19.871	1.00	25.11	A	C
ATOM	1307	CB THR A 168	24.757	75.788	19.346	1.00	24.47	A	C
ATOM	1308	OG1 THR A 168	23.646	74.919	19.099	1.00	28.03	A	O
ATOM	1309	CG2 THR A 168	25.133	76.488	18.048	1.00	28.49	A	C
ATOM	1310	C THR A 168	27.182	75.849	19.920	1.00	24.43	A	C
ATOM	1311	O THR A 168	27.989	75.836	18.995	1.00	26.62	A	O
ATOM	1312	N PRO A 169	27.347	76.640	20.992	1.00	25.87	A	N
ATOM	1313	CD PRO A 169	26.337	76.983	22.009	1.00	23.89	A	C
ATOM	1314	CA PRO A 169	28.512	77.523	21.113	1.00	28.42	A	C
ATOM	1315	CB PRO A 169	28.198	78.329	22.372	1.00	25.95	A	C
ATOM	1316	CG PRO A 169	26.709	78.406	22.351	1.00	26.22	A	C
ATOM	1317	C PRO A 169	29.868	76.813	21.210	1.00	30.41	A	C
ATOM	1318	O PRO A 169	30.914	77.440	21.035	1.00	30.45	A	O
ATOM	1319	N LEU A 170	29.853	75.512	21.487	1.00	32.27	A	N
ATOM	1320	CA LEU A 170	31.094	74.755	21.611	1.00	34.59	A	C
ATOM	1321	CB LEU A 170	30.808	73.338	22.098	1.00	33.83	A	C
ATOM	1322	CG LEU A 170	30.417	73.202	23.568	1.00	32.01	A	C
ATOM	1323	CD1 LEU A 170	30.035	71.760	23.848	1.00	29.69	A	C
ATOM	1324	CD2 LEU A 170	31.579	73.641	24.458	1.00	29.22	A	C
ATOM	1325	C LEU A 170	31.897	74.677	20.323	1.00	37.74	A	C
ATOM	1326	O LEU A 170	31.358	74.386	19.254	1.00	39.31	A	O
ATOM	1327	N GLU A 171	33.197	74.924	20.434	1.00	40.03	A	N
ATOM	1328	CA GLU A 171	34.076	74.871	19.276	1.00	43.34	A	C
ATOM	1329	CB GLU A 171	34.750	76.229	19.067	1.00	48.27	A	C
ATOM	1330	CG GLU A 171	33.759	77.349	18.782	1.00	54.56	A	C
ATOM	1331	CD GLU A 171	33.072	77.200	17.431	1.00	59.45	A	C
ATOM	1332	OE1 GLU A 171	32.919	76.051	16.953	1.00	60.27	A	O
ATOM	1333	OE2 GLU A 171	32.672	78.237	16.852	1.00	61.77	A	O
ATOM	1334	C GLU A 171	35.120	73.777	19.447	1.00	42.59	A	C
ATOM	1335	O GLU A 171	36.239	73.888	18.951	1.00	43.77	A	O
ATOM	1336	N ILE A 172	34.741	72.717	20.155	1.00	40.35	A	N
ATOM	1337	CA ILE A 172	35.636	71.589	20.391	1.00	38.22	A	C
ATOM	1338	CB ILE A 172	36.155	71.569	21.842	1.00	37.75	A	C
ATOM	1339	CG2 ILE A 172	36.806	72.901	22.184	1.00	34.13	A	C
ATOM	1340	CG1 ILE A 172	34.997	71.276	22.797	1.00	36.28	A	C
ATOM	1341	CD1 ILE A 172	35.430	70.993	24.225	1.00	40.90	A	C
ATOM	1342	C ILE A 172	34.911	70.272	20.145	1.00	36.42	A	C
ATOM	1343	O ILE A 172	33.688	70.200	20.222	1.00	39.20	A	O
ATOM	1344	N LEU A 173	35.674	69.231	19.838	1.00	34.80	A	N

Figure 5Y

ATOM	1345	CA	LEU A 173	35.104	67.910	19.612	1.00	32.15	A	C
ATOM	1346	CB	LEU A 173	35.718	67.265	18.363	1.00	33.04	A	C
ATOM	1347	CG	LEU A 173	35.480	67.998	17.037	1.00	34.61	A	C
ATOM	1348	CD1	LEU A 173	36.221	67.290	15.910	1.00	33.74	A	C
ATOM	1349	CD2	LEU A 173	33.979	68.056	16.747	1.00	34.77	A	C
ATOM	1350	C	LEU A 173	35.454	67.102	20.855	1.00	29.45	A	C
ATOM	1351	O	LEU A 173	36.481	66.424	20.896	1.00	27.62	A	O
ATOM	1352	N	PRO A 174	34.598	67.167	21.891	1.00	27.18	A	N
ATOM	1353	CD	PRO A 174	33.272	67.811	21.931	1.00	26.43	A	C
ATOM	1354	CA	PRO A 174	34.858	66.432	23.132	1.00	24.33	A	C
ATOM	1355	CB	PRO A 174	33.646	66.772	24.003	1.00	25.04	A	C
ATOM	1356	CG	PRO A 174	32.560	67.015	22.997	1.00	27.39	A	C
ATOM	1357	C	PRO A 174	35.067	64.934	22.991	1.00	21.39	A	C
ATOM	1358	O	PRO A 174	34.335	64.250	22.277	1.00	22.17	A	O
ATOM	1359	N	GLU A 175	36.088	64.438	23.679	1.00	19.42	A	N
ATOM	1360	CA	GLU A 175	36.405	63.021	23.683	1.00	19.85	A	C
ATOM	1361	CB	GLU A 175	37.905	62.821	23.465	1.00	21.90	A	C
ATOM	1362	CG	GLU A 175	38.320	62.869	21.999	1.00	27.70	A	C
ATOM	1363	CD	GLU A 175	39.823	62.943	21.802	1.00	27.64	A	C
ATOM	1364	OE1	GLU A 175	40.565	62.242	22.523	1.00	28.19	A	O
ATOM	1365	OE2	GLU A 175	40.260	63.701	20.913	1.00	30.42	A	O
ATOM	1366	C	GLU A 175	35.983	62.473	25.044	1.00	19.80	A	C
ATOM	1367	O	GLU A 175	35.855	61.263	25.239	1.00	19.75	A	O
ATOM	1368	N	VAL A 176	35.762	63.383	25.986	1.00	18.80	A	N
ATOM	1369	CA	VAL A 176	35.349	63.006	27.330	1.00	17.58	A	C
ATOM	1370	CB	VAL A 176	36.550	62.981	28.313	1.00	16.92	A	C
ATOM	1371	CG1	VAL A 176	36.091	62.488	29.676	1.00	15.99	A	C
ATOM	1372	CG2	VAL A 176	37.661	62.087	27.772	1.00	16.67	A	C
ATOM	1373	C	VAL A 176	34.330	64.014	27.840	1.00	16.96	A	C
ATOM	1374	O	VAL A 176	34.533	65.224	27.746	1.00	17.95	A	O
ATOM	1375	N	ILE A 177	33.222	63.509	28.362	1.00	17.35	A	N
ATOM	1376	CA	ILE A 177	32.184	64.373	28.902	1.00	15.36	A	C
ATOM	1377	CB	ILE A 177	30.873	64.272	28.100	1.00	15.94	A	C
ATOM	1378	CG2	ILE A 177	29.805	65.149	28.759	1.00	14.07	A	C
ATOM	1379	CG1	ILE A 177	31.113	64.699	26.647	1.00	17.19	A	C
ATOM	1380	CD1	ILE A 177	29.880	64.597	25.748	1.00	18.12	A	C
ATOM	1381	C	ILE A 177	31.896	63.970	30.334	1.00	14.25	A	C
ATOM	1382	O	ILE A 177	31.499	62.833	30.609	1.00	15.75	A	O
ATOM	1383	N	ILE A 178	32.108	64.900	31.253	1.00	14.90	A	N
ATOM	1384	CA	ILE A 178	31.841	64.618	32.647	1.00	12.36	A	C
ATOM	1385	CB	ILE A 178	32.770	65.419	33.573	1.00	14.08	A	C
ATOM	1386	CG2	ILE A 178	32.465	65.085	35.026	1.00	10.97	A	C
ATOM	1387	CG1	ILE A 178	34.229	65.095	33.248	1.00	13.91	A	C
ATOM	1388	CD1	ILE A 178	35.235	65.846	34.106	1.00	13.08	A	C
ATOM	1389	C	ILE A 178	30.396	64.988	32.950	1.00	12.88	A	C
ATOM	1390	O	ILE A 178	29.949	66.103	32.671	1.00	13.50	A	O
ATOM	1391	N	LEU A 179	29.659	64.038	33.506	1.00	12.90	A	N
ATOM	1392	CA	LEU A 179	28.270	64.288	33.867	1.00	14.35	A	C
ATOM	1393	CB	LEU A 179	27.465	62.992	33.717	1.00	14.31	A	C
ATOM	1394	CG	LEU A 179	27.542	62.418	32.298	1.00	15.12	A	C
ATOM	1395	CD1	LEU A 179	26.919	61.033	32.251	1.00	20.10	A	C
ATOM	1396	CD2	LEU A 179	26.844	63.361	31.336	1.00	20.25	A	C
ATOM	1397	C	LEU A 179	28.320	64.760	35.319	1.00	13.67	A	C
ATOM	1398	O	LEU A 179	27.829	64.085	36.224	1.00	15.54	A	O
ATOM	1399	N	GLY A 180	28.930	65.931	35.512	1.00	11.65	A	N
ATOM	1400	CA	GLY A 180	29.117	66.517	36.834	1.00	12.90	A	C
ATOM	1401	C	GLY A 180	27.910	67.040	37.593	1.00	10.74	A	C
ATOM	1402	O	GLY A 180	27.955	68.116	38.191	1.00	12.43	A	O

Figure 5Z

ATOM	1403	N	CYS A 181	26.835	66.267	37.589	1.00	11.19	A	N
ATOM	1404	CA	CYS A 181	25.608	66.640	38.287	1.00	12.85	A	C
ATOM	1405	CB	CYS A 181	24.832	67.662	37.455	1.00	10.63	A	C
ATOM	1406	SG	CYS A 181	23.232	68.156	38.139	1.00	12.80	A	S
ATOM	1407	C	CYS A 181	24.769	65.379	38.482	1.00	10.40	A	C
ATOM	1408	O	CYS A 181	24.655	64.567	37.565	1.00	12.33	A	O
ATOM	1409	N	THR A 182	24.195	65.218	39.673	1.00	11.84	A	N
ATOM	1410	CA	THR A 182	23.374	64.050	39.993	1.00	10.35	A	C
ATOM	1411	CB	THR A 182	22.661	64.207	41.363	1.00	10.67	A	C
ATOM	1412	OG1	THR A 182	21.912	65.435	41.381	1.00	8.58	A	O
ATOM	1413	CG2	THR A 182	23.672	64.197	42.500	1.00	7.64	A	C
ATOM	1414	C	THR A 182	22.283	63.760	38.966	1.00	11.06	A	C
ATOM	1415	O	THR A 182	21.936	62.610	38.733	1.00	10.76	A	O
ATOM	1416	N	HIS A 183	21.739	64.810	38.364	1.00	9.82	A	N
ATOM	1417	CA	HIS A 183	20.649	64.666	37.400	1.00	12.23	A	C
ATOM	1418	CB	HIS A 183	19.884	65.990	37.276	1.00	10.20	A	C
ATOM	1419	CG	HIS A 183	19.136	66.386	38.510	1.00	10.97	A	C
ATOM	1420	CD2	HIS A 183	17.905	66.930	38.668	1.00	7.50	A	C
ATOM	1421	ND1	HIS A 183	19.677	66.290	39.774	1.00	11.77	A	N
ATOM	1422	CE1	HIS A 183	18.812	66.758	40.658	1.00	10.61	A	C
ATOM	1423	NE2	HIS A 183	17.729	67.154	40.012	1.00	10.59	A	N
ATOM	1424	C	HIS A 183	21.020	64.221	35.990	1.00	10.73	A	C
ATOM	1425	O	HIS A 183	20.228	63.569	35.323	1.00	12.38	A	O
ATOM	1426	N	PHE A 184	22.221	64.570	35.545	1.00	12.86	A	N
ATOM	1427	CA	PHE A 184	22.645	64.280	34.180	1.00	12.13	A	C
ATOM	1428	CB	PHE A 184	23.988	64.976	33.925	1.00	11.91	A	C
ATOM	1429	CG	PHE A 184	23.927	66.488	34.096	1.00	11.77	A	C
ATOM	1430	CD1	PHE A 184	25.057	67.276	33.896	1.00	13.67	A	C
ATOM	1431	CD2	PHE A 184	22.739	67.116	34.482	1.00	9.45	A	C
ATOM	1432	CE1	PHE A 184	25.009	68.666	34.081	1.00	11.33	A	C
ATOM	1433	CE2	PHE A 184	22.681	68.502	34.670	1.00	12.83	A	C
ATOM	1434	CZ	PHE A 184	23.819	69.278	34.469	1.00	9.95	A	C
ATOM	1435	C	PHE A 184	22.655	62.833	33.670	1.00	12.53	A	C
ATOM	1436	O	PHE A 184	22.429	62.596	32.481	1.00	14.09	A	O
ATOM	1437	N	PRO A 185	22.902	61.847	34.545	1.00	13.81	A	N
ATOM	1438	CD	PRO A 185	23.442	61.881	35.918	1.00	14.48	A	C
ATOM	1439	CA	PRO A 185	22.893	60.475	34.026	1.00	13.96	A	C
ATOM	1440	CB	PRO A 185	23.165	59.640	35.275	1.00	14.58	A	C
ATOM	1441	CG	PRO A 185	24.112	60.522	36.032	1.00	12.13	A	C
ATOM	1442	C	PRO A 185	21.554	60.121	33.367	1.00	15.04	A	C
ATOM	1443	O	PRO A 185	21.492	59.261	32.489	1.00	13.75	A	O
ATOM	1444	N	LEU A 186	20.485	60.790	33.791	1.00	13.98	A	N
ATOM	1445	CA	LEU A 186	19.156	60.525	33.243	1.00	13.19	A	C
ATOM	1446	CB	LEU A 186	18.080	61.193	34.108	1.00	13.71	A	C
ATOM	1447	CG	LEU A 186	17.634	60.379	35.334	1.00	15.55	A	C
ATOM	1448	CD1	LEU A 186	18.802	60.174	36.288	1.00	18.92	A	C
ATOM	1449	CD2	LEU A 186	16.493	61.099	36.027	1.00	14.26	A	C
ATOM	1450	C	LEU A 186	18.982	60.931	31.778	1.00	14.41	A	C
ATOM	1451	O	LEU A 186	18.010	60.533	31.137	1.00	14.59	A	O
ATOM	1452	N	ILE A 187	19.905	61.734	31.255	1.00	14.30	A	N
ATOM	1453	CA	ILE A 187	19.854	62.140	29.849	1.00	14.33	A	C
ATOM	1454	CB	ILE A 187	19.485	63.633	29.667	1.00	13.17	A	C
ATOM	1455	CG2	ILE A 187	18.052	63.871	30.096	1.00	11.03	A	C
ATOM	1456	CG1	ILE A 187	20.446	64.523	30.453	1.00	12.17	A	C
ATOM	1457	CD1	ILE A 187	20.256	66.011	30.170	1.00	14.07	A	C
ATOM	1458	C	ILE A 187	21.197	61.890	29.168	1.00	14.64	A	C
ATOM	1459	O	ILE A 187	21.487	62.447	28.108	1.00	13.68	A	O
ATOM	1460	N	ALA A 188	22.008	61.035	29.781	1.00	15.37	A	N

Figure 5AA

ATOM	1461	CA	ALA A 188	23.322	60.707	29.243	1.00	16.86	A	C
ATOM	1462	CB	ALA A 188	23.965	59.607	30.075	1.00	15.17	A	C
ATOM	1463	C	ALA A 188	23.244	60.280	27.776	1.00	17.17	A	C
ATOM	1464	O	ALA A 188	23.979	60.797	26.938	1.00	15.74	A	O
ATOM	1465	N	GLN A 189	22.353	59.340	27.470	1.00	17.32	A	N
ATOM	1466	CA	GLN A 189	22.203	58.857	26.101	1.00	18.82	A	C
ATOM	1467	CB	GLN A 189	21.162	57.741	26.050	1.00	23.61	A	C
ATOM	1468	CG	GLN A 189	21.199	56.919	24.774	1.00	30.80	A	C
ATOM	1469	CD	GLN A 189	22.592	56.391	24.458	1.00	36.03	A	C
ATOM	1470	OE1	GLN A 189	23.321	55.942	25.347	1.00	36.39	A	O
ATOM	1471	NE2	GLN A 189	22.965	56.435	23.184	1.00	38.93	A	N
ATOM	1472	C	GLN A 189	21.794	59.995	25.169	1.00	17.49	A	C
ATOM	1473	O	GLN A 189	22.280	60.092	24.041	1.00	17.22	A	O
ATOM	1474	N	LYS A 190	20.894	60.851	25.639	1.00	17.64	A	N
ATOM	1475	CA	LYS A 190	20.449	61.986	24.841	1.00	16.93	A	C
ATOM	1476	CB	LYS A 190	19.338	62.750	25.565	1.00	17.51	A	C
ATOM	1477	CG	LYS A 190	17.998	62.038	25.578	1.00	21.98	A	C
ATOM	1478	CD	LYS A 190	17.462	61.852	24.166	1.00	25.56	A	C
ATOM	1479	CE	LYS A 190	16.064	61.256	24.188	1.00	30.02	A	C
ATOM	1480	NZ	LYS A 190	15.428	61.242	22.839	1.00	32.59	A	N
ATOM	1481	C	LYS A 190	21.624	62.919	24.572	1.00	17.12	A	C
ATOM	1482	O	LYS A 190	21.755	63.468	23.481	1.00	19.51	A	O
ATOM	1483	N	ILE A 191	22.483	63.097	25.570	1.00	15.92	A	N
ATOM	1484	CA	ILE A 191	23.643	63.963	25.413	1.00	15.53	A	C
ATOM	1485	CB	ILE A 191	24.348	64.194	26.769	1.00	16.74	A	C
ATOM	1486	CG2	ILE A 191	25.698	64.877	26.558	1.00	17.54	A	C
ATOM	1487	CG1	ILE A 191	23.447	65.048	27.668	1.00	16.67	A	C
ATOM	1488	CD1	ILE A 191	24.051	65.372	29.014	1.00	17.95	A	C
ATOM	1489	C	ILE A 191	24.615	63.350	24.413	1.00	17.26	A	C
ATOM	1490	O	ILE A 191	25.099	64.027	23.508	1.00	16.51	A	O
ATOM	1491	N	GLU A 192	24.892	62.062	24.566	1.00	17.44	A	N
ATOM	1492	CA	GLU A 192	25.792	61.387	23.643	1.00	18.42	A	C
ATOM	1493	CB	GLU A 192	25.937	59.909	24.007	1.00	20.11	A	C
ATOM	1494	CG	GLU A 192	26.885	59.159	23.085	1.00	26.76	A	C
ATOM	1495	CD	GLU A 192	26.872	57.665	23.322	1.00	32.66	A	C
ATOM	1496	OE1	GLU A 192	25.884	57.005	22.936	1.00	37.07	A	O
ATOM	1497	OE2	GLU A 192	27.846	57.152	23.906	1.00	37.14	A	O
ATOM	1498	C	GLU A 192	25.209	61.499	22.241	1.00	17.46	A	C
ATOM	1499	O	GLU A 192	25.912	61.804	21.283	1.00	15.49	A	O
ATOM	1500	N	GLY A 193	23.910	61.249	22.136	1.00	19.60	A	N
ATOM	1501	CA	GLY A 193	23.247	61.319	20.851	1.00	18.22	A	C
ATOM	1502	C	GLY A 193	23.344	62.683	20.199	1.00	20.98	A	C
ATOM	1503	O	GLY A 193	23.518	62.781	18.983	1.00	19.02	A	O
ATOM	1504	N	TYR A 194	23.230	63.742	20.997	1.00	19.99	A	N
ATOM	1505	CA	TYR A 194	23.302	65.087	20.450	1.00	19.30	A	C
ATOM	1506	CB	TYR A 194	23.081	66.136	21.545	1.00	21.79	A	C
ATOM	1507	CG	TYR A 194	23.038	67.544	20.997	1.00	22.73	A	C
ATOM	1508	CD1	TYR A 194	21.822	68.170	20.713	1.00	25.33	A	C
ATOM	1509	CE1	TYR A 194	21.784	69.442	20.133	1.00	26.15	A	C
ATOM	1510	CD2	TYR A 194	24.216	68.226	20.692	1.00	24.23	A	C
ATOM	1511	CE2	TYR A 194	24.190	69.493	20.109	1.00	23.26	A	C
ATOM	1512	CZ	TYR A 194	22.973	70.092	19.830	1.00	25.26	A	C
ATOM	1513	OH	TYR A 194	22.941	71.327	19.222	1.00	28.86	A	O
ATOM	1514	C	TYR A 194	24.660	65.313	19.788	1.00	20.71	A	C
ATOM	1515	O	TYR A 194	24.738	65.782	18.653	1.00	18.94	A	O
ATOM	1516	N	PHE A 195	25.732	64.980	20.496	1.00	19.26	A	N
ATOM	1517	CA	PHE A 195	27.062	65.169	19.942	1.00	21.38	A	C
ATOM	1518	CB	PHE A 195	28.126	64.952	21.020	1.00	20.73	A	C

Figure 5BB

ATOM	1519	CG	PHE A 195	28.251	66.103	21.971	1.00	20.61	A	C
ATOM	1520	CD1	PHE A 195	27.488	66.158	23.131	1.00	19.23	A	C
ATOM	1521	CD2	PHE A 195	29.097	67.165	21.673	1.00	21.43	A	C
ATOM	1522	CE1	PHE A 195	27.565	67.263	23.986	1.00	20.28	A	C
ATOM	1523	CE2	PHE A 195	29.183	68.273	22.515	1.00	18.52	A	C
ATOM	1524	CZ	PHE A 195	28.416	68.323	23.673	1.00	19.62	A	C
ATOM	1525	C	PHE A 195	27.352	64.290	18.730	1.00	21.31	A	C
ATOM	1526	O	PHE A 195	28.045	64.713	17.806	1.00	21.45	A	O
ATOM	1527	N	MET A 196	26.822	63.072	18.720	1.00	22.22	A	N
ATOM	1528	CA	MET A 196	27.059	62.190	17.584	1.00	24.31	A	C
ATOM	1529	CB	MET A 196	26.655	60.749	17.915	1.00	25.67	A	C
ATOM	1530	CG	MET A 196	27.528	60.084	18.971	1.00	26.49	A	C
ATOM	1531	SD	MET A 196	29.295	60.205	18.575	1.00	30.70	A	S
ATOM	1532	CE	MET A 196	29.481	58.865	17.401	1.00	31.02	A	C
ATOM	1533	C	MET A 196	26.293	62.667	16.354	1.00	25.42	A	C
ATOM	1534	O	MET A 196	26.734	62.451	15.227	1.00	23.73	A	O
ATOM	1535	N	GLY A 197	25.157	63.328	16.571	1.00	25.90	A	N
ATOM	1536	CA	GLY A 197	24.361	63.805	15.451	1.00	26.44	A	C
ATOM	1537	C	GLY A 197	24.566	65.258	15.054	1.00	29.06	A	C
ATOM	1538	O	GLY A 197	24.129	65.681	13.981	1.00	30.51	A	O
ATOM	1539	N	HIS A 198	25.233	66.030	15.903	1.00	27.75	A	N
ATOM	1540	CA	HIS A 198	25.456	67.441	15.612	1.00	28.55	A	C
ATOM	1541	CB	HIS A 198	24.824	68.293	16.705	1.00	28.88	A	C
ATOM	1542	CG	HIS A 198	23.330	68.234	16.718	1.00	26.12	A	C
ATOM	1543	CD2	HIS A 198	22.470	67.535	17.495	1.00	26.28	A	C
ATOM	1544	ND1	HIS A 198	22.553	68.943	15.828	1.00	27.58	A	N
ATOM	1545	CE1	HIS A 198	21.277	68.687	16.060	1.00	27.01	A	C
ATOM	1546	NE2	HIS A 198	21.200	67.835	17.066	1.00	26.83	A	N
ATOM	1547	C	HIS A 198	26.923	67.792	15.457	1.00	30.79	A	C
ATOM	1548	O	HIS A 198	27.270	68.941	15.180	1.00	32.29	A	O
ATOM	1549	N	PHE A 199	27.785	66.800	15.644	1.00	30.80	A	N
ATOM	1550	CA	PHE A 199	29.220	66.999	15.498	1.00	33.66	A	C
ATOM	1551	CB	PHE A 199	29.906	67.052	16.866	1.00	35.46	A	C
ATOM	1552	CG	PHE A 199	29.565	68.275	17.676	1.00	39.04	A	C
ATOM	1553	CD1	PHE A 199	28.281	68.463	18.182	1.00	39.24	A	C
ATOM	1554	CD2	PHE A 199	30.537	69.237	17.945	1.00	40.88	A	C
ATOM	1555	CE1	PHE A 199	27.968	69.591	18.944	1.00	40.57	A	C
ATOM	1556	CE2	PHE A 199	30.236	70.370	18.707	1.00	42.99	A	C
ATOM	1557	CZ	PHE A 199	28.948	70.547	19.207	1.00	40.25	A	C
ATOM	1558	C	PHE A 199	29.790	65.855	14.673	1.00	32.87	A	C
ATOM	1559	O	PHE A 199	29.170	64.798	14.547	1.00	32.00	A	O
ATOM	1560	N	ALA A 200	30.972	66.064	14.108	1.00	34.09	A	N
ATOM	1561	CA	ALA A 200	31.605	65.040	13.288	1.00	34.34	A	C
ATOM	1562	CB	ALA A 200	32.381	65.690	12.154	1.00	35.22	A	C
ATOM	1563	C	ALA A 200	32.532	64.168	14.119	1.00	34.93	A	C
ATOM	1564	O	ALA A 200	33.704	63.996	13.782	1.00	35.08	A	O
ATOM	1565	N	LEU A 201	32.012	63.618	15.209	1.00	34.85	A	N
ATOM	1566	CA	LEU A 201	32.821	62.765	16.067	1.00	34.78	A	C
ATOM	1567	CB	LEU A 201	32.210	62.690	17.472	1.00	35.79	A	C
ATOM	1568	CG	LEU A 201	32.120	64.015	18.231	1.00	35.31	A	C
ATOM	1569	CD1	LEU A 201	31.513	63.760	19.603	1.00	35.13	A	C
ATOM	1570	CD2	LEU A 201	33.498	64.641	18.365	1.00	35.35	A	C
ATOM	1571	C	LEU A 201	32.906	61.366	15.462	1.00	34.07	A	C
ATOM	1572	O	LEU A 201	31.887	60.773	15.104	1.00	35.38	A	O
ATOM	1573	N	PRO A 202	34.128	60.817	15.344	1.00	33.66	A	N
ATOM	1574	CD	PRO A 202	35.409	61.457	15.698	1.00	32.39	A	C
ATOM	1575	CA	PRO A 202	34.353	59.475	14.779	1.00	32.85	A	C
ATOM	1576	CB	PRO A 202	35.872	59.404	14.655	1.00	33.65	A	C

Figure 5CC

ATOM	1577	CG	PRO A 202	36.343	60.272	15.793	1.00	34.48	A	C
ATOM	1578	C	PRO A 202	33.790	58.355	15.649	1.00	33.17	A	C
ATOM	1579	O	PRO A 202	33.402	57.297	15.151	1.00	30.49	A	O
ATOM	1580	N	THR A 203	33.773	58.599	16.956	1.00	31.52	A	N
ATOM	1581	CA	THR A 203	33.248	57.634	17.919	1.00	31.65	A	C
ATOM	1582	CB	THR A 203	34.338	56.676	18.426	1.00	32.68	A	C
ATOM	1583	OG1	THR A 203	35.425	57.424	18.979	1.00	35.29	A	O
ATOM	1584	CG2	THR A 203	34.828	55.781	17.302	1.00	37.32	A	C
ATOM	1585	C	THR A 203	32.688	58.386	19.117	1.00	30.86	A	C
ATOM	1586	O	THR A 203	33.168	59.451	19.461	1.00	27.18	A	O
ATOM	1587	N	PRO A 204	31.671	57.817	19.775	1.00	29.89	A	N
ATOM	1588	CD	PRO A 204	31.126	56.473	19.492	1.00	29.77	A	C
ATOM	1589	CA	PRO A 204	31.061	58.463	20.945	1.00	28.24	A	C
ATOM	1590	CB	PRO A 204	30.047	57.449	21.462	1.00	29.94	A	C
ATOM	1591	CG	PRO A 204	30.111	56.276	20.568	1.00	30.77	A	C
ATOM	1592	C	PRO A 204	32.096	58.803	22.007	1.00	25.79	A	C
ATOM	1593	O	PRO A 204	33.032	58.041	22.269	1.00	25.89	A	O
ATOM	1594	N	PRO A 205	31.961	59.981	22.626	1.00	23.44	A	N
ATOM	1595	CD	PRO A 205	30.990	61.063	22.358	1.00	24.13	A	C
ATOM	1596	CA	PRO A 205	32.915	60.378	23.670	1.00	22.08	A	C
ATOM	1597	CB	PRO A 205	32.600	61.852	23.873	1.00	24.52	A	C
ATOM	1598	CG	PRO A 205	31.125	61.932	23.587	1.00	24.69	A	C
ATOM	1599	C	PRO A 205	32.705	59.546	24.927	1.00	19.36	A	C
ATOM	1600	O	PRO A 205	31.637	58.961	25.125	1.00	18.49	A	O
ATOM	1601	N	LEU A 206	33.722	59.492	25.776	1.00	18.43	A	N
ATOM	1602	CA	LEU A 206	33.626	58.762	27.037	1.00	18.50	A	C
ATOM	1603	CB	LEU A 206	35.018	58.513	27.619	1.00	20.51	A	C
ATOM	1604	CG	LEU A 206	35.095	57.847	28.996	1.00	22.39	A	C
ATOM	1605	CD1	LEU A 206	34.491	56.439	28.946	1.00	22.36	A	C
ATOM	1606	CD2	LEU A 206	36.552	57.791	29.435	1.00	24.60	A	C
ATOM	1607	C	LEU A 206	32.822	59.615	28.017	1.00	18.04	A	C
ATOM	1608	O	LEU A 206	33.163	60.770	28.253	1.00	16.95	A	O
ATOM	1609	N	LEU A 207	31.746	59.049	28.554	1.00	16.00	A	N
ATOM	1610	CA	LEU A 207	30.909	59.748	29.521	1.00	17.26	A	C
ATOM	1611	CB	LEU A 207	29.433	59.412	29.304	1.00	18.06	A	C
ATOM	1612	CG	LEU A 207	28.664	60.071	28.158	1.00	24.42	A	C
ATOM	1613	CD1	LEU A 207	29.448	59.984	26.863	1.00	25.51	A	C
ATOM	1614	CD2	LEU A 207	27.310	59.373	28.012	1.00	24.48	A	C
ATOM	1615	C	LEU A 207	31.318	59.314	30.922	1.00	16.98	A	C
ATOM	1616	O	LEU A 207	31.388	58.120	31.215	1.00	18.46	A	O
ATOM	1617	N	ILE A 208	31.592	60.276	31.792	1.00	13.50	A	N
ATOM	1618	CA	ILE A 208	31.983	59.940	33.150	1.00	14.98	A	C
ATOM	1619	CB	ILE A 208	33.112	60.864	33.659	1.00	16.20	A	C
ATOM	1620	CG2	ILE A 208	33.468	60.509	35.101	1.00	16.97	A	C
ATOM	1621	CG1	ILE A 208	34.345	60.722	32.763	1.00	16.39	A	C
ATOM	1622	CD1	ILE A 208	34.984	59.333	32.784	1.00	17.91	A	C
ATOM	1623	C	ILE A 208	30.771	60.069	34.057	1.00	15.79	A	C
ATOM	1624	O	ILE A 208	30.193	61.150	34.194	1.00	15.47	A	O
ATOM	1625	N	HIS A 209	30.390	58.951	34.669	1.00	15.02	A	N
ATOM	1626	CA	HIS A 209	29.238	58.895	35.567	1.00	14.90	A	C
ATOM	1627	CB	HIS A 209	28.502	57.569	35.333	1.00	17.49	A	C
ATOM	1628	CG	HIS A 209	27.271	57.387	36.169	1.00	19.71	A	C
ATOM	1629	CD2	HIS A 209	27.116	57.192	37.500	1.00	20.19	A	C
ATOM	1630	ND1	HIS A 209	26.004	57.336	35.625	1.00	21.72	A	N
ATOM	1631	CE1	HIS A 209	25.123	57.114	36.584	1.00	17.63	A	C
ATOM	1632	NE2	HIS A 209	25.772	57.023	37.732	1.00	22.48	A	N
ATOM	1633	C	HIS A 209	29.744	59.006	37.011	1.00	13.24	A	C
ATOM	1634	O	HIS A 209	30.546	58.191	37.458	1.00	13.01	A	O

Figure 5DD

ATOM	1635	N	SER A 210	29.275	60.018	37.734	1.00	12.05	A	N
ATOM	1636	CA	SER A 210	29.709	60.238	39.109	1.00	11.23	A	C
ATOM	1637	CB	SER A 210	28.977	61.442	39.701	1.00	11.83	A	C
ATOM	1638	OG	SER A 210	29.140	62.587	38.881	1.00	12.14	A	O
ATOM	1639	C	SER A 210	29.529	59.031	40.032	1.00	12.17	A	C
ATOM	1640	O	SER A 210	30.370	58.774	40.890	1.00	11.45	A	O
ATOM	1641	N	GLY A 211	28.432	58.303	39.861	1.00	13.88	A	N
ATOM	1642	CA	GLY A 211	28.178	57.142	40.698	1.00	15.08	A	C
ATOM	1643	C	GLY A 211	29.147	56.004	40.446	1.00	16.38	A	C
ATOM	1644	O	GLY A 211	29.744	55.461	41.378	1.00	15.04	A	O
ATOM	1645	N	ASP A 212	29.311	55.630	39.183	1.00	15.98	A	N
ATOM	1646	CA	ASP A 212	30.231	54.552	38.860	1.00	16.82	A	C
ATOM	1647	CB	ASP A 212	30.208	54.264	37.365	1.00	19.63	A	C
ATOM	1648	CG	ASP A 212	28.847	53.798	36.895	1.00	23.61	A	C
ATOM	1649	OD1	ASP A 212	28.145	53.131	37.692	1.00	25.34	A	O
ATOM	1650	OD2	ASP A 212	28.486	54.086	35.738	1.00	21.50	A	O
ATOM	1651	C	ASP A 212	31.638	54.917	39.303	1.00	16.04	A	C
ATOM	1652	O	ASP A 212	32.375	54.073	39.807	1.00	15.40	A	O
ATOM	1653	N	ALA A 213	31.994	56.185	39.135	1.00	12.67	A	N
ATOM	1654	CA	ALA A 213	33.317	56.667	39.517	1.00	14.11	A	C
ATOM	1655	CB	ALA A 213	33.493	58.126	39.076	1.00	11.29	A	C
ATOM	1656	C	ALA A 213	33.560	56.540	41.022	1.00	12.53	A	C
ATOM	1657	O	ALA A 213	34.607	56.049	41.452	1.00	13.00	A	O
ATOM	1658	N	ILE A 214	32.603	56.973	41.834	1.00	13.61	A	N
ATOM	1659	CA	ILE A 214	32.808	56.875	43.271	1.00	11.94	A	C
ATOM	1660	CB	ILE A 214	31.748	57.701	44.065	1.00	12.63	A	C
ATOM	1661	CG2	ILE A 214	30.367	57.085	43.938	1.00	15.04	A	C
ATOM	1662	CG1	ILE A 214	32.174	57.795	45.530	1.00	12.30	A	C
ATOM	1663	CD1	ILE A 214	31.429	58.832	46.317	1.00	11.04	A	C
ATOM	1664	C	ILE A 214	32.855	55.405	43.719	1.00	13.71	A	C
ATOM	1665	O	ILE A 214	33.595	55.061	44.643	1.00	12.81	A	O
ATOM	1666	N	VAL A 215	32.096	54.538	43.053	1.00	13.33	A	N
ATOM	1667	CA	VAL A 215	32.118	53.109	43.387	1.00	13.18	A	C
ATOM	1668	CB	VAL A 215	31.165	52.293	42.474	1.00	13.68	A	C
ATOM	1669	CG1	VAL A 215	31.481	50.792	42.579	1.00	14.80	A	C
ATOM	1670	CG2	VAL A 215	29.707	52.537	42.876	1.00	10.93	A	C
ATOM	1671	C	VAL A 215	33.550	52.599	43.190	1.00	15.07	A	C
ATOM	1672	O	VAL A 215	34.115	51.933	44.065	1.00	12.73	A	O
ATOM	1673	N	GLU A 216	34.136	52.924	42.039	1.00	13.86	A	N
ATOM	1674	CA	GLU A 216	35.503	52.511	41.738	1.00	17.89	A	C
ATOM	1675	CB	GLU A 216	35.973	53.120	40.414	1.00	21.27	A	C
ATOM	1676	CG	GLU A 216	35.112	52.807	39.204	1.00	27.92	A	C
ATOM	1677	CD	GLU A 216	35.637	53.492	37.941	1.00	34.02	A	C
ATOM	1678	OE1	GLU A 216	36.824	53.286	37.609	1.00	31.93	A	O
ATOM	1679	OE2	GLU A 216	34.868	54.236	37.285	1.00	35.33	A	O
ATOM	1680	C	GLU A 216	36.447	52.971	42.846	1.00	17.32	A	C
ATOM	1681	O	GLU A 216	37.245	52.188	43.363	1.00	16.80	A	O
ATOM	1682	N	TYR A 217	36.352	54.248	43.204	1.00	16.20	A	N
ATOM	1683	CA	TYR A 217	37.200	54.818	44.244	1.00	16.23	A	C
ATOM	1684	CB	TYR A 217	36.900	56.308	44.432	1.00	14.73	A	C
ATOM	1685	CG	TYR A 217	37.693	56.942	45.557	1.00	17.55	A	C
ATOM	1686	CD1	TYR A 217	39.053	57.202	45.418	1.00	18.17	A	C
ATOM	1687	CE1	TYR A 217	39.797	57.738	46.475	1.00	18.51	A	C
ATOM	1688	CD2	TYR A 217	37.089	57.234	46.780	1.00	16.61	A	C
ATOM	1689	CE2	TYR A 217	37.815	57.765	47.836	1.00	17.74	A	C
ATOM	1690	CZ	TYR A 217	39.168	58.014	47.680	1.00	19.47	A	C
ATOM	1691	OH	TYR A 217	39.891	58.526	48.735	1.00	18.42	A	O
ATOM	1692	C	TYR A 217	37.041	54.116	45.584	1.00	16.31	A	C

Figure 5EE

ATOM	1693	O	TYR A 217	38.028	53.715	46.199	1.00	16.78	A	O
ATOM	1694	N	LEU A 218	35.798	53.995	46.045	1.00	15.56	A	N
ATOM	1695	CA	LEU A 218	35.509	53.353	47.324	1.00	18.16	A	C
ATOM	1696	CB	LEU A 218	33.993	53.344	47.575	1.00	15.21	A	C
ATOM	1697	CG	LEU A 218	33.321	54.705	47.799	1.00	15.27	A	C
ATOM	1698	CD1	LEU A 218	31.798	54.546	47.756	1.00	14.34	A	C
ATOM	1699	CD2	LEU A 218	33.775	55.294	49.129	1.00	13.25	A	C
ATOM	1700	C	LEU A 218	36.058	51.926	47.402	1.00	18.45	A	C
ATOM	1701	O	LEU A 218	36.648	51.531	48.409	1.00	18.06	A	O
ATOM	1702	N	GLN A 219	35.871	51.150	46.341	1.00	17.77	A	N
ATOM	1703	CA	GLN A 219	36.367	49.778	46.335	1.00	19.66	A	C
ATOM	1704	CB	GLN A 219	36.042	49.097	45.005	1.00	18.42	A	C
ATOM	1705	CG	GLN A 219	34.577	49.147	44.645	1.00	17.80	A	C
ATOM	1706	CD	GLN A 219	34.282	48.496	43.318	1.00	17.89	A	C
ATOM	1707	OE1	GLN A 219	35.071	48.596	42.372	1.00	18.96	A	O
ATOM	1708	NE2	GLN A 219	33.134	47.837	43.228	1.00	13.87	A	N
ATOM	1709	C	GLN A 219	37.876	49.740	46.567	1.00	19.63	A	C
ATOM	1710	O	GLN A 219	38.368	48.964	47.380	1.00	19.95	A	O
ATOM	1711	N	GLN A 220	38.605	50.593	45.859	1.00	21.16	A	N
ATOM	1712	CA	GLN A 220	40.057	50.621	45.992	1.00	24.11	A	C
ATOM	1713	CB	GLN A 220	40.681	51.372	44.811	1.00	25.85	A	C
ATOM	1714	CG	GLN A 220	42.197	51.445	44.885	1.00	34.94	A	C
ATOM	1715	CD	GLN A 220	42.830	51.975	43.615	1.00	40.03	A	C
ATOM	1716	OE1	GLN A 220	44.050	52.152	43.548	1.00	44.37	A	O
ATOM	1717	NE2	GLN A 220	42.010	52.227	42.598	1.00	41.95	A	N
ATOM	1718	C	GLN A 220	40.534	51.242	47.304	1.00	22.63	A	C
ATOM	1719	O	GLN A 220	41.275	50.617	48.062	1.00	21.00	A	O
ATOM	1720	N	LYS A 221	40.104	52.472	47.564	1.00	21.71	A	N
ATOM	1721	CA	LYS A 221	40.503	53.194	48.770	1.00	22.37	A	C
ATOM	1722	CB	LYS A 221	39.830	54.570	48.795	1.00	21.53	A	C
ATOM	1723	CG	LYS A 221	39.984	55.325	50.111	1.00	25.31	A	C
ATOM	1724	CD	LYS A 221	41.443	55.615	50.439	1.00	26.19	A	C
ATOM	1725	CE	LYS A 221	41.579	56.244	51.818	1.00	29.00	A	C
ATOM	1726	NZ	LYS A 221	42.999	56.511	52.159	1.00	29.71	A	N
ATOM	1727	C	LYS A 221	40.221	52.464	50.084	1.00	22.42	A	C
ATOM	1728	O	LYS A 221	41.090	52.376	50.953	1.00	21.37	A	O
ATOM	1729	N	TYR A 222	39.005	51.950	50.229	1.00	20.94	A	N
ATOM	1730	CA	TYR A 222	38.616	51.250	51.442	1.00	21.75	A	C
ATOM	1731	CB	TYR A 222	37.251	51.762	51.903	1.00	22.02	A	C
ATOM	1732	CG	TYR A 222	37.277	53.247	52.204	1.00	20.42	A	C
ATOM	1733	CD1	TYR A 222	36.737	54.178	51.314	1.00	18.91	A	C
ATOM	1734	CE1	TYR A 222	36.866	55.549	51.545	1.00	20.88	A	C
ATOM	1735	CD2	TYR A 222	37.938	53.725	53.336	1.00	21.77	A	C
ATOM	1736	CE2	TYR A 222	38.074	55.080	53.577	1.00	19.97	A	C
ATOM	1737	CZ	TYR A 222	37.540	55.988	52.679	1.00	20.71	A	C
ATOM	1738	OH	TYR A 222	37.705	57.330	52.909	1.00	16.95	A	O
ATOM	1739	C	TYR A 222	38.637	49.731	51.350	1.00	21.67	A	C
ATOM	1740	O	TYR A 222	38.112	49.040	52.226	1.00	20.83	A	O
ATOM	1741	N	ALA A 223	39.264	49.219	50.292	1.00	21.20	A	N
ATOM	1742	CA	ALA A 223	39.408	47.774	50.077	1.00	22.92	A	C
ATOM	1743	CB	ALA A 223	40.466	47.204	50.984	1.00	23.23	A	C
ATOM	1744	C	ALA A 223	38.105	47.055	50.330	1.00	23.19	A	C
ATOM	1745	O	ALA A 223	38.024	46.162	51.180	1.00	20.95	A	O
ATOM	1746	N	LEU A 224	37.088	47.426	49.565	1.00	25.19	A	N
ATOM	1747	CA	LEU A 224	35.759	46.839	49.692	1.00	24.53	A	C
ATOM	1748	CB	LEU A 224	34.703	47.937	49.609	1.00	22.99	A	C
ATOM	1749	CG	LEU A 224	34.869	49.090	50.607	1.00	21.68	A	C
ATOM	1750	CD1	LEU A 224	33.731	50.099	50.443	1.00	22.66	A	C

Figure 5FF

ATOM	1751	CD2 LEU A 224	34.875	48.531	52.022	1.00	23.83	A	C
ATOM	1752	C LEU A 224	35.576	45.852	48.551	1.00	24.10	A	C
ATOM	1753	O LEU A 224	35.569	46.259	47.400	1.00	22.11	A	O
ATOM	1754	N LYS A 225	35.368	44.572	48.866	1.00	26.47	A	N
ATOM	1755	CA LYS A 225	35.212	43.532	47.846	1.00	25.75	A	C
ATOM	1756	CB LYS A 225	35.880	42.233	48.331	1.00	26.74	A	C
ATOM	1757	CG LYS A 225	37.358	42.380	48.669	1.00	28.32	A	C
ATOM	1758	CD LYS A 225	38.185	42.652	47.421	1.00	31.42	A	C
ATOM	1759	CE LYS A 225	38.157	41.461	46.478	1.00	32.69	A	C
ATOM	1760	NZ LYS A 225	39.003	41.698	45.284	1.00	34.46	A	N
ATOM	1761	C LYS A 225	33.803	43.213	47.340	1.00	24.95	A	C
ATOM	1762	O LYS A 225	33.568	42.125	46.819	1.00	29.54	A	O
ATOM	1763	N ASN A 226	32.870	44.143	47.489	1.00	23.13	A	N
ATOM	1764	CA ASN A 226	31.498	43.938	47.019	1.00	20.01	A	C
ATOM	1765	CB ASN A 226	31.469	43.729	45.500	1.00	19.42	A	C
ATOM	1766	CG ASN A 226	32.287	44.755	44.751	1.00	23.12	A	C
ATOM	1767	OD1 ASN A 226	33.342	44.439	44.190	1.00	20.38	A	O
ATOM	1768	ND2 ASN A 226	31.814	45.995	44.743	1.00	16.65	A	N
ATOM	1769	C ASN A 226	30.800	42.740	47.662	1.00	21.21	A	C
ATOM	1770	O ASN A 226	30.086	41.999	46.981	1.00	18.29	A	O
ATOM	1771	N ASN A 227	30.984	42.551	48.963	1.00	22.29	A	N
ATOM	1772	CA ASN A 227	30.362	41.421	49.641	1.00	22.96	A	C
ATOM	1773	CB ASN A 227	31.438	40.462	50.163	1.00	22.46	A	C
ATOM	1774	CG ASN A 227	32.503	41.165	50.982	1.00	21.07	A	C
ATOM	1775	OD1 ASN A 227	32.223	42.137	51.679	1.00	19.99	A	O
ATOM	1776	ND2 ASN A 227	33.733	40.659	50.916	1.00	19.44	A	N
ATOM	1777	C ASN A 227	29.428	41.805	50.783	1.00	24.57	A	C
ATOM	1778	O ASN A 227	29.198	41.005	51.690	1.00	21.91	A	O
ATOM	1779	N ALA A 228	28.891	43.021	50.741	1.00	23.23	A	N
ATOM	1780	CA ALA A 228	27.969	43.481	51.776	1.00	26.14	A	C
ATOM	1781	CB ALA A 228	27.806	45.001	51.699	1.00	22.82	A	C
ATOM	1782	C ALA A 228	26.611	42.793	51.596	1.00	26.93	A	C
ATOM	1783	O ALA A 228	26.405	42.077	50.619	1.00	26.75	A	O
ATOM	1784	N CYS A 229	25.698	43.016	52.541	1.00	29.94	A	N
ATOM	1785	CA CYS A 229	24.359	42.425	52.508	1.00	34.05	A	C
ATOM	1786	CB CYS A 229	23.438	43.143	53.508	1.00	36.45	A	C
ATOM	1787	SG CYS A 229	23.886	42.897	55.243	1.00	48.21	A	S
ATOM	1788	C CYS A 229	23.730	42.476	51.124	1.00	35.31	A	C
ATOM	1789	O CYS A 229	23.882	43.451	50.399	1.00	35.27	A	O
ATOM	1790	N THR A 230	23.030	41.412	50.757	1.00	38.04	A	N
ATOM	1791	CA THR A 230	22.378	41.380	49.466	1.00	40.97	A	C
ATOM	1792	CB THR A 230	21.965	39.958	49.076	1.00	42.40	A	C
ATOM	1793	OG1 THR A 230	21.273	39.335	50.163	1.00	45.09	A	O
ATOM	1794	CG2 THR A 230	23.190	39.148	48.730	1.00	43.15	A	C
ATOM	1795	C THR A 230	21.150	42.269	49.476	1.00	41.97	A	C
ATOM	1796	O THR A 230	20.887	42.971	48.493	1.00	42.37	A	O
ATOM	1797	N PHE A 231	20.376	42.232	50.552	1.00	42.74	A	N
ATOM	1798	CA PHE A 231	19.230	43.108	50.576	1.00	43.96	A	C
ATOM	1799	CB PHE A 231	17.938	42.321	50.366	1.00	49.35	A	C
ATOM	1800	CG PHE A 231	17.721	41.990	48.907	1.00	55.66	A	C
ATOM	1801	CD1 PHE A 231	18.494	41.004	48.306	1.00	58.70	A	C
ATOM	1802	CD2 PHE A 231	16.903	42.785	48.088	1.00	58.59	A	C
ATOM	1803	CE1 PHE A 231	18.483	40.801	46.922	1.00	60.69	A	C
ATOM	1804	CE2 PHE A 231	16.879	42.597	46.701	1.00	60.58	A	C
ATOM	1805	CZ PHE A 231	17.668	41.604	46.113	1.00	60.92	A	C
ATOM	1806	C PHE A 231	19.335	43.912	51.838	1.00	40.83	A	C
ATOM	1807	O PHE A 231	18.811	43.567	52.886	1.00	42.69	A	O
ATOM	1808	N PRO A 232	20.153	44.975	51.722	1.00	35.76	A	N

Figure 5GG

ATOM	1809	CD	PRO A 232	20.672	45.196	50.347	1.00	35.27	A	C
ATOM	1810	CA	PRO A 232	20.579	46.028	52.651	1.00	32.93	A	C
ATOM	1811	CB	PRO A 232	21.689	46.764	51.874	1.00	32.41	A	C
ATOM	1812	CG	PRO A 232	21.363	46.497	50.424	1.00	32.47	A	C
ATOM	1813	C	PRO A 232	19.457	46.929	53.137	1.00	29.06	A	C
ATOM	1814	O	PRO A 232	18.456	47.146	52.452	1.00	27.86	A	O
ATOM	1815	N	LYS A 233	19.630	47.440	54.346	1.00	27.89	A	N
ATOM	1816	CA	LYS A 233	18.645	48.314	54.943	1.00	25.66	A	C
ATOM	1817	CB	LYS A 233	18.682	48.188	56.464	1.00	29.61	A	C
ATOM	1818	CG	LYS A 233	18.178	46.843	56.973	1.00	34.08	A	C
ATOM	1819	CD	LYS A 233	18.086	46.829	58.491	1.00	40.01	A	C
ATOM	1820	CE	LYS A 233	19.454	46.996	59.139	1.00	41.92	A	C
ATOM	1821	NZ	LYS A 233	19.351	47.038	60.626	1.00	44.78	A	N
ATOM	1822	C	LYS A 233	18.945	49.739	54.524	1.00	23.25	A	C
ATOM	1823	O	LYS A 233	20.042	50.248	54.738	1.00	20.72	A	O
ATOM	1824	N	VAL A 234	17.959	50.374	53.909	1.00	21.94	A	N
ATOM	1825	CA	VAL A 234	18.122	51.742	53.457	1.00	18.96	A	C
ATOM	1826	CB	VAL A 234	18.171	51.809	51.927	1.00	18.07	A	C
ATOM	1827	CG1	VAL A 234	18.407	53.242	51.484	1.00	15.91	A	C
ATOM	1828	CG2	VAL A 234	19.265	50.884	51.403	1.00	19.03	A	C
ATOM	1829	C	VAL A 234	16.982	52.622	53.945	1.00	19.45	A	C
ATOM	1830	O	VAL A 234	15.810	52.291	53.775	1.00	18.84	A	O
ATOM	1831	N	GLU A 235	17.332	53.749	54.550	1.00	18.70	A	N
ATOM	1832	CA	GLU A 235	16.333	54.682	55.044	1.00	19.65	A	C
ATOM	1833	CB	GLU A 235	16.584	55.029	56.513	1.00	20.87	A	C
ATOM	1834	CG	GLU A 235	16.619	53.849	57.461	1.00	24.25	A	C
ATOM	1835	CD	GLU A 235	16.762	54.287	58.908	1.00	26.71	A	C
ATOM	1836	OE1	GLU A 235	16.924	53.412	59.782	1.00	30.95	A	O
ATOM	1837	OE2	GLU A 235	16.710	55.509	59.174	1.00	28.58	A	O
ATOM	1838	C	GLU A 235	16.433	55.957	54.226	1.00	19.63	A	C
ATOM	1839	O	GLU A 235	17.522	56.339	53.793	1.00	19.08	A	O
ATOM	1840	N	PHE A 236	15.295	56.608	54.008	1.00	16.22	A	N
ATOM	1841	CA	PHE A 236	15.281	57.850	53.260	1.00	15.50	A	C
ATOM	1842	CB	PHE A 236	14.454	57.703	51.985	1.00	16.22	A	C
ATOM	1843	CG	PHE A 236	15.028	56.712	51.008	1.00	16.49	A	C
ATOM	1844	CD1	PHE A 236	14.734	55.352	51.117	1.00	14.80	A	C
ATOM	1845	CD2	PHE A 236	15.906	57.131	50.011	1.00	16.20	A	C
ATOM	1846	CE1	PHE A 236	15.311	54.423	50.249	1.00	16.35	A	C
ATOM	1847	CE2	PHE A 236	16.488	56.213	49.140	1.00	16.85	A	C
ATOM	1848	CZ	PHE A 236	16.191	54.857	49.258	1.00	18.08	A	C
ATOM	1849	C	PHE A 236	14.725	58.953	54.150	1.00	17.81	A	C
ATOM	1850	O	PHE A 236	13.669	58.808	54.771	1.00	17.48	A	O
ATOM	1851	N	HIS A 237	15.473	60.043	54.238	1.00	14.01	A	N
ATOM	1852	CA	HIS A 237	15.077	61.178	55.050	1.00	13.85	A	C
ATOM	1853	CB	HIS A 237	15.976	61.261	56.282	1.00	16.76	A	C
ATOM	1854	CG	HIS A 237	15.871	60.068	57.183	1.00	20.30	A	C
ATOM	1855	CD2	HIS A 237	16.529	58.884	57.176	1.00	22.69	A	C
ATOM	1856	ND1	HIS A 237	14.963	59.994	58.216	1.00	21.64	A	N
ATOM	1857	CE1	HIS A 237	15.065	58.816	58.808	1.00	24.58	A	C
ATOM	1858	NE2	HIS A 237	16.008	58.123	58.196	1.00	24.02	A	N
ATOM	1859	C	HIS A 237	15.240	62.421	54.190	1.00	12.98	A	C
ATOM	1860	O	HIS A 237	15.960	62.402	53.199	1.00	14.24	A	O
ATOM	1861	N	ALA A 238	14.573	63.500	54.571	1.00	14.25	A	N
ATOM	1862	CA	ALA A 238	14.656	64.745	53.822	1.00	14.74	A	C
ATOM	1863	CB	ALA A 238	13.867	64.622	52.523	1.00	13.87	A	C
ATOM	1864	C	ALA A 238	14.105	65.889	54.662	1.00	16.80	A	C
ATOM	1865	O	ALA A 238	13.416	65.662	55.659	1.00	13.41	A	O
ATOM	1866	N	SER A 239	14.419	67.118	54.265	1.00	16.83	A	N

Figure SHH

ATOM	1867	CA	SER A 239	13.934	68.289	54.982	1.00	15.86	A	C
ATOM	1868	CB	SER A 239	14.874	69.472	54.749	1.00	17.78	A	C
ATOM	1869	OG	SER A 239	15.235	69.570	53.382	1.00	15.31	A	O
ATOM	1870	C	SER A 239	12.526	68.628	54.501	1.00	18.27	A	C
ATOM	1871	O	SER A 239	11.851	69.475	55.081	1.00	19.09	A	O
ATOM	1872	N	GLY A 240	12.093	67.950	53.440	1.00	19.12	A	N
ATOM	1873	CA	GLY A 240	10.764	68.172	52.891	1.00	18.85	A	C
ATOM	1874	C	GLY A 240	10.400	67.108	51.872	1.00	20.08	A	C
ATOM	1875	O	GLY A 240	11.262	66.321	51.462	1.00	19.84	A	O
ATOM	1876	N	ASP A 241	9.134	67.065	51.464	1.00	17.58	A	N
ATOM	1877	CA	ASP A 241	8.692	66.077	50.481	1.00	19.46	A	C
ATOM	1878	CB	ASP A 241	9.150	66.501	49.083	1.00	21.27	A	C
ATOM	1879	CG	ASP A 241	8.429	67.738	48.587	1.00	23.85	A	C
ATOM	1880	OD1	ASP A 241	7.247	67.610	48.206	1.00	26.32	A	O
ATOM	1881	OD2	ASP A 241	9.038	68.833	48.591	1.00	21.42	A	O
ATOM	1882	C	ASP A 241	9.257	64.694	50.803	1.00	16.99	A	C
ATOM	1883	O	ASP A 241	9.731	63.987	49.913	1.00	17.49	A	O
ATOM	1884	N	VAL A 242	9.208	64.316	52.076	1.00	15.93	A	N
ATOM	1885	CA	VAL A 242	9.737	63.025	52.516	1.00	14.13	A	C
ATOM	1886	CB	VAL A 242	9.894	62.990	54.052	1.00	17.19	A	C
ATOM	1887	CG1	VAL A 242	10.671	61.740	54.469	1.00	16.23	A	C
ATOM	1888	CG2	VAL A 242	10.612	64.248	54.523	1.00	18.97	A	C
ATOM	1889	C	VAL A 242	8.849	61.864	52.082	1.00	15.60	A	C
ATOM	1890	O	VAL A 242	9.341	60.808	51.660	1.00	12.78	A	O
ATOM	1891	N	ILE A 243	7.540	62.057	52.209	1.00	14.41	A	N
ATOM	1892	CA	ILE A 243	6.577	61.045	51.803	1.00	16.25	A	C
ATOM	1893	CB	ILE A 243	5.125	61.549	52.007	1.00	18.10	A	C
ATOM	1894	CG2	ILE A 243	4.123	60.554	51.414	1.00	20.99	A	C
ATOM	1895	CG1	ILE A 243	4.858	61.747	53.502	1.00	21.18	A	C
ATOM	1896	CD1	ILE A 243	3.485	62.293	53.817	1.00	20.78	A	C
ATOM	1897	C	ILE A 243	6.833	60.787	50.324	1.00	15.05	A	C
ATOM	1898	O	ILE A 243	6.885	59.639	49.878	1.00	16.76	A	O
ATOM	1899	N	TRP A 244	7.005	61.868	49.569	1.00	13.24	A	N
ATOM	1900	CA	TRP A 244	7.270	61.768	48.142	1.00	15.52	A	C
ATOM	1901	CB	TRP A 244	7.343	63.164	47.523	1.00	13.47	A	C
ATOM	1902	CG	TRP A 244	7.510	63.151	46.036	1.00	18.87	A	C
ATOM	1903	CD2	TRP A 244	8.732	63.342	45.312	1.00	17.48	A	C
ATOM	1904	CE2	TRP A 244	8.426	63.232	43.940	1.00	18.22	A	C
ATOM	1905	CE3	TRP A 244	10.057	63.594	45.693	1.00	17.59	A	C
ATOM	1906	CD1	TRP A 244	6.538	62.938	45.099	1.00	18.15	A	C
ATOM	1907	NE1	TRP A 244	7.083	62.988	43.835	1.00	18.29	A	N
ATOM	1908	CZ2	TRP A 244	9.399	63.366	42.943	1.00	20.22	A	C
ATOM	1909	CZ3	TRP A 244	11.024	63.727	44.702	1.00	18.36	A	C
ATOM	1910	CH2	TRP A 244	10.688	63.611	43.342	1.00	18.43	A	C
ATOM	1911	C	TRP A 244	8.590	61.042	47.891	1.00	14.64	A	C
ATOM	1912	O	TRP A 244	8.670	60.149	47.044	1.00	16.51	A	O
ATOM	1913	N	LEU A 245	9.628	61.436	48.623	1.00	13.56	A	N
ATOM	1914	CA	LEU A 245	10.941	60.814	48.459	1.00	12.19	A	C
ATOM	1915	CB	LEU A 245	11.946	61.416	49.444	1.00	11.28	A	C
ATOM	1916	CG	LEU A 245	13.379	60.875	49.342	1.00	11.24	A	C
ATOM	1917	CD1	LEU A 245	13.988	61.289	48.009	1.00	11.74	A	C
ATOM	1918	CD2	LEU A 245	14.223	61.407	50.490	1.00	10.22	A	C
ATOM	1919	C	LEU A 245	10.862	59.301	48.661	1.00	14.05	A	C
ATOM	1920	O	LEU A 245	11.439	58.537	47.884	1.00	12.33	A	O
ATOM	1921	N	GLU A 246	10.144	58.870	49.698	1.00	14.68	A	N
ATOM	1922	CA	GLU A 246	10.000	57.441	49.980	1.00	16.30	A	C
ATOM	1923	CB	GLU A 246	9.198	57.213	51.267	1.00	16.70	A	C
ATOM	1924	CG	GLU A 246	9.938	57.637	52.521	1.00	23.08	A	C

Figure 5II

ATOM	1925	CD	GLU A 246	9.544	56.818	53.737	1.00	25.63	A	C
ATOM	1926	OE1	GLU A 246	8.335	56.577	53.927	1.00	24.93	A	O
ATOM	1927	OE2	GLU A 246	10.444	56.423	54.508	1.00	27.10	A	O
ATOM	1928	C	GLU A 246	9.324	56.714	48.828	1.00	15.72	A	C
ATOM	1929	O	GLU A 246	9.691	55.589	48.494	1.00	15.40	A	O
ATOM	1930	N	ARG A 247	8.326	57.359	48.235	1.00	16.57	A	N
ATOM	1931	CA	ARG A 247	7.611	56.790	47.105	1.00	18.74	A	C
ATOM	1932	CB	ARG A 247	6.445	57.710	46.711	1.00	23.10	A	C
ATOM	1933	CG	ARG A 247	5.875	57.451	45.325	1.00	32.32	A	C
ATOM	1934	CD	ARG A 247	4.561	58.204	45.114	1.00	40.32	A	C
ATOM	1935	NE	ARG A 247	4.084	58.117	43.733	1.00	47.44	A	N
ATOM	1936	CZ	ARG A 247	4.569	58.835	42.722	1.00	49.78	A	C
ATOM	1937	NH1	ARG A 247	5.548	59.705	42.931	1.00	51.70	A	N
ATOM	1938	NH2	ARG A 247	4.079	58.682	41.497	1.00	52.43	A	N
ATOM	1939	C	ARG A 247	8.594	56.630	45.941	1.00	17.54	A	C
ATOM	1940	O	ARG A 247	8.654	55.578	45.299	1.00	14.31	A	O
ATOM	1941	N	GLN A 248	9.375	57.672	45.677	1.00	15.93	A	N
ATOM	1942	CA	GLN A 248	10.350	57.608	44.598	1.00	16.24	A	C
ATOM	1943	CB	GLN A 248	11.120	58.929	44.485	1.00	17.33	A	C
ATOM	1944	CG	GLN A 248	10.267	60.119	44.047	1.00	16.22	A	C
ATOM	1945	CD	GLN A 248	9.552	59.879	42.725	1.00	22.44	A	C
ATOM	1946	OE1	GLN A 248	10.184	59.627	41.694	1.00	22.85	A	O
ATOM	1947	NE2	GLN A 248	8.225	59.958	42.749	1.00	24.90	A	N
ATOM	1948	C	GLN A 248	11.324	56.453	44.815	1.00	15.90	A	C
ATOM	1949	O	GLN A 248	11.705	55.768	43.866	1.00	16.87	A	O
ATOM	1950	N	ALA A 249	11.720	56.231	46.065	1.00	15.92	A	N
ATOM	1951	CA	ALA A 249	12.644	55.146	46.384	1.00	15.55	A	C
ATOM	1952	CB	ALA A 249	13.015	55.191	47.857	1.00	16.80	A	C
ATOM	1953	C	ALA A 249	12.032	53.789	46.041	1.00	16.47	A	C
ATOM	1954	O	ALA A 249	12.685	52.943	45.426	1.00	16.21	A	O
ATOM	1955	N	LYS A 250	10.779	53.582	46.438	1.00	16.38	A	N
ATOM	1956	CA	LYS A 250	10.102	52.316	46.159	1.00	18.81	A	C
ATOM	1957	CB	LYS A 250	8.750	52.258	46.880	1.00	20.86	A	C
ATOM	1958	CG	LYS A 250	8.843	52.132	48.394	1.00	26.84	A	C
ATOM	1959	CD	LYS A 250	7.488	51.745	48.988	1.00	31.08	A	C
ATOM	1960	CE	LYS A 250	7.554	51.607	50.507	1.00	31.43	A	C
ATOM	1961	NZ	LYS A 250	7.896	52.899	51.156	1.00	29.87	A	N
ATOM	1962	C	LYS A 250	9.884	52.121	44.661	1.00	18.41	A	C
ATOM	1963	O	LYS A 250	10.073	51.024	44.125	1.00	15.17	A	O
ATOM	1964	N	GLU A 251	9.493	53.200	43.992	1.00	15.62	A	N
ATOM	1965	CA	GLU A 251	9.224	53.167	42.562	1.00	18.32	A	C
ATOM	1966	CB	GLU A 251	8.586	54.486	42.119	1.00	20.33	A	C
ATOM	1967	CG	GLU A 251	7.205	54.758	42.692	1.00	23.48	A	C
ATOM	1968	CD	GLU A 251	6.106	54.036	41.936	1.00	25.23	A	C
ATOM	1969	OE1	GLU A 251	6.415	53.361	40.932	1.00	28.49	A	O
ATOM	1970	OE2	GLU A 251	4.932	54.152	42.341	1.00	25.47	A	O
ATOM	1971	C	GLU A 251	10.448	52.921	41.694	1.00	20.06	A	C
ATOM	1972	O	GLU A 251	10.398	52.121	40.763	1.00	17.23	A	O
ATOM	1973	N	TRP A 252	11.547	53.606	41.997	1.00	19.52	A	N
ATOM	1974	CA	TRP A 252	12.748	53.489	41.175	1.00	20.14	A	C
ATOM	1975	CB	TRP A 252	13.276	54.885	40.832	1.00	18.05	A	C
ATOM	1976	CG	TRP A 252	12.305	55.710	40.043	1.00	18.22	A	C
ATOM	1977	CD2	TRP A 252	12.039	55.607	38.640	1.00	20.57	A	C
ATOM	1978	CE2	TRP A 252	11.017	56.533	38.339	1.00	20.85	A	C
ATOM	1979	CE3	TRP A 252	12.564	54.818	37.607	1.00	21.87	A	C
ATOM	1980	CD1	TRP A 252	11.460	56.669	40.523	1.00	17.88	A	C
ATOM	1981	NE1	TRP A 252	10.683	57.168	39.508	1.00	17.77	A	N
ATOM	1982	CZ2	TRP A 252	10.506	56.697	37.041	1.00	22.03	A	C

Figure 5JJ

ATOM	1983	CZ3 TRP A 252	12.055	54.978	36.314	1.00	21.57	A	C
ATOM	1984	CH2 TRP A 252	11.036	55.913	36.045	1.00	22.86	A	C
ATOM	1985	C TRP A 252	13.902	52.641	41.688	1.00	22.39	A	C
ATOM	1986	O TRP A 252	14.680	52.122	40.886	1.00	23.72	A	O
ATOM	1987	N LEU A 253	14.024	52.504	43.003	1.00	22.18	A	N
ATOM	1988	CA LEU A 253	15.106	51.717	43.588	1.00	25.35	A	C
ATOM	1989	CB LEU A 253	15.809	52.524	44.680	1.00	20.44	A	C
ATOM	1990	CG LEU A 253	16.355	53.904	44.285	1.00	21.92	A	C
ATOM	1991	CD1 LEU A 253	16.785	54.649	45.532	1.00	18.63	A	C
ATOM	1992	CD2 LEU A 253	17.530	53.758	43.316	1.00	20.79	A	C
ATOM	1993	C LEU A 253	14.583	50.401	44.168	1.00	29.73	A	C
ATOM	1994	O LEU A 253	15.357	49.570	44.647	1.00	31.04	A	O
ATOM	1995	N LYS A 254	13.267	50.219	44.121	1.00	33.91	A	N
ATOM	1996	CA LYS A 254	12.638	49.007	44.631	1.00	39.79	A	C
ATOM	1997	CB LYS A 254	13.102	47.795	43.812	1.00	43.18	A	C
ATOM	1998	CG LYS A 254	12.330	46.518	44.102	1.00	51.27	A	C
ATOM	1999	CD LYS A 254	12.747	45.377	43.181	1.00	56.67	A	C
ATOM	2000	CE LYS A 254	11.928	44.121	43.464	1.00	59.29	A	C
ATOM	2001	NZ LYS A 254	10.463	44.368	43.307	1.00	62.20	A	N
ATOM	2002	C LYS A 254	12.967	48.805	46.110	1.00	41.24	A	C
ATOM	2003	O LYS A 254	13.111	47.678	46.586	1.00	42.02	A	O
ATOM	2004	N LEU A 255	13.091	49.911	46.834	1.00	42.21	A	N
ATOM	2005	CA LEU A 255	13.396	49.856	48.255	1.00	43.88	A	C
ATOM	2006	CB LEU A 255	14.643	50.687	48.560	1.00	41.85	A	C
ATOM	2007	CG LEU A 255	15.934	50.186	47.910	1.00	40.40	A	C
ATOM	2008	CD1 LEU A 255	17.065	51.143	48.229	1.00	40.11	A	C
ATOM	2009	CD2 LEU A 255	16.258	48.788	48.412	1.00	39.40	A	C
ATOM	2010	C LEU A 255	12.211	50.365	49.070	1.00	46.21	A	C
ATOM	2011	O LEU A 255	12.350	51.427	49.715	1.00	47.30	A	O
ATOM	2012	OXT LEU A 255	11.152	49.696	49.044	1.00	48.09	A	O
ATOM	2013	CB MET B 1	3.272	103.508	55.905	1.00	23.27	B	C
ATOM	2014	CG MET B 1	3.026	102.116	56.484	1.00	25.31	B	C
ATOM	2015	SD MET B 1	1.613	101.253	55.747	1.00	29.32	B	S
ATOM	2016	CE MET B 1	0.239	102.076	56.594	1.00	27.48	B	C
ATOM	2017	C MET B 1	5.739	103.357	56.203	1.00	22.82	B	C
ATOM	2018	O MET B 1	6.391	103.503	55.166	1.00	21.44	B	O
ATOM	2019	N MET B 1	4.661	105.565	55.875	1.00	22.28	B	N
ATOM	2020	CA MET B 1	4.509	104.211	56.478	1.00	22.89	B	C
ATOM	2021	N LYS B 2	6.057	102.479	57.148	1.00	22.63	B	N
ATOM	2022	CA LYS B 2	7.185	101.568	57.010	1.00	21.27	B	C
ATOM	2023	CB LYS B 2	8.060	101.591	58.260	1.00	21.29	B	C
ATOM	2024	CG LYS B 2	9.273	100.675	58.156	1.00	18.62	B	C
ATOM	2025	CD LYS B 2	10.097	100.705	59.419	1.00	18.80	B	C
ATOM	2026	CE LYS B 2	11.414	99.983	59.213	1.00	19.94	B	C
ATOM	2027	NZ LYS B 2	12.203	99.908	60.474	1.00	21.20	B	N
ATOM	2028	C LYS B 2	6.610	100.169	56.822	1.00	19.67	B	C
ATOM	2029	O LYS B 2	5.903	99.661	57.692	1.00	20.03	B	O
ATOM	2030	N ILE B 3	6.915	99.545	55.689	1.00	18.60	B	N
ATOM	2031	CA ILE B 3	6.395	98.213	55.410	1.00	16.13	B	C
ATOM	2032	CB ILE B 3	5.409	98.250	54.232	1.00	18.20	B	C
ATOM	2033	CG2 ILE B 3	4.281	99.237	54.516	1.00	15.72	B	C
ATOM	2034	CG1 ILE B 3	6.156	98.669	52.964	1.00	17.99	B	C
ATOM	2035	CD1 ILE B 3	5.909	97.772	51.772	1.00	20.13	B	C
ATOM	2036	C ILE B 3	7.476	97.190	55.062	1.00	17.01	B	C
ATOM	2037	O ILE B 3	8.637	97.535	54.820	1.00	13.35	B	O
ATOM	2038	N GLY B 4	7.072	95.924	55.046	1.00	15.79	B	N
ATOM	2039	CA GLY B 4	7.982	94.859	54.678	1.00	13.12	B	C
ATOM	2040	C GLY B 4	7.474	94.217	53.401	1.00	12.84	B	C

Figure 5KK

ATOM	2041	O	GLY B	4	6.271	94.248	53.123	1.00	12.27	B	O
ATOM	2042	N	VAL B	5	8.387	93.670	52.602	1.00	11.41	B	N
ATOM	2043	CA	VAL B	5	8.024	92.982	51.362	1.00	12.46	B	C
ATOM	2044	CB	VAL B	5	8.471	93.755	50.092	1.00	11.43	B	C
ATOM	2045	CG1	VAL B	5	8.281	92.886	48.860	1.00	10.57	B	C
ATOM	2046	CG2	VAL B	5	7.646	95.026	49.938	1.00	13.41	B	C
ATOM	2047	C	VAL B	5	8.745	91.641	51.404	1.00	11.84	B	C
ATOM	2048	O	VAL B	5	9.964	91.591	51.565	1.00	13.84	B	O
ATOM	2049	N	PHE B	6	7.989	90.559	51.277	1.00	11.52	B	N
ATOM	2050	CA	PHE B	6	8.571	89.222	51.330	1.00	12.00	B	C
ATOM	2051	CB	PHE B	6	7.930	88.429	52.471	1.00	14.01	B	C
ATOM	2052	CG	PHE B	6	8.313	86.975	52.485	1.00	15.68	B	C
ATOM	2053	CD1	PHE B	6	9.650	86.598	52.576	1.00	15.79	B	C
ATOM	2054	CD2	PHE B	6	7.340	85.983	52.403	1.00	17.28	B	C
ATOM	2055	CE1	PHE B	6	10.017	85.251	52.584	1.00	15.22	B	C
ATOM	2056	CE2	PHE B	6	7.699	84.628	52.411	1.00	18.59	B	C
ATOM	2057	CZ	PHE B	6	9.044	84.268	52.502	1.00	15.23	B	C
ATOM	2058	C	PHE B	6	8.440	88.410	50.046	1.00	12.99	B	C
ATOM	2059	O	PHE B	6	7.396	88.412	49.400	1.00	13.52	B	O
ATOM	2060	N	ASP B	7	9.512	87.707	49.695	1.00	13.22	B	N
ATOM	2061	CA	ASP B	7	9.533	86.839	48.523	1.00	12.28	B	C
ATOM	2062	CB	ASP B	7	9.914	87.600	47.254	1.00	12.10	B	C
ATOM	2063	CG	ASP B	7	9.838	86.727	46.018	1.00	11.16	B	C
ATOM	2064	OD1	ASP B	7	8.773	86.111	45.800	1.00	11.05	B	O
ATOM	2065	OD2	ASP B	7	10.835	86.652	45.265	1.00	15.46	B	O
ATOM	2066	C	ASP B	7	10.544	85.730	48.749	1.00	12.97	B	C
ATOM	2067	O	ASP B	7	11.402	85.831	49.626	1.00	14.91	B	O
ATOM	2068	N	SER B	8	10.444	84.670	47.953	1.00	13.64	B	N
ATOM	2069	CA	SER B	8	11.367	83.551	48.076	1.00	13.32	B	C
ATOM	2070	CB	SER B	8	10.870	82.357	47.246	1.00	11.76	B	C
ATOM	2071	OG	SER B	8	10.643	82.716	45.892	1.00	12.59	B	O
ATOM	2072	C	SER B	8	12.760	83.979	47.618	1.00	12.86	B	C
ATOM	2073	O	SER B	8	13.760	83.328	47.931	1.00	15.56	B	O
ATOM	2074	N	GLY B	9	12.826	85.088	46.888	1.00	14.15	B	N
ATOM	2075	CA	GLY B	9	14.113	85.565	46.418	1.00	11.94	B	C
ATOM	2076	C	GLY B	9	14.060	86.923	45.751	1.00	13.28	B	C
ATOM	2077	O	GLY B	9	13.420	87.855	46.255	1.00	11.42	B	O
ATOM	2078	N	VAL B	10	14.731	87.031	44.608	1.00	11.70	B	N
ATOM	2079	CA	VAL B	10	14.793	88.283	43.848	1.00	13.19	B	C
ATOM	2080	CB	VAL B	10	16.035	88.301	42.931	1.00	11.94	B	C
ATOM	2081	CG1	VAL B	10	15.956	87.149	41.948	1.00	17.01	B	C
ATOM	2082	CG2	VAL B	10	16.148	89.633	42.200	1.00	12.63	B	C
ATOM	2083	C	VAL B	10	13.546	88.495	42.995	1.00	12.34	B	C
ATOM	2084	O	VAL B	10	13.267	89.604	42.550	1.00	14.01	B	O
ATOM	2085	N	GLY B	11	12.794	87.426	42.768	1.00	12.08	B	N
ATOM	2086	CA	GLY B	11	11.591	87.540	41.957	1.00	14.90	B	C
ATOM	2087	C	GLY B	11	10.634	88.640	42.373	1.00	12.77	B	C
ATOM	2088	O	GLY B	11	10.004	89.278	41.524	1.00	13.23	B	O
ATOM	2089	N	GLY B	12	10.524	88.861	43.679	1.00	13.56	B	N
ATOM	2090	CA	GLY B	12	9.639	89.887	44.198	1.00	15.76	B	C
ATOM	2091	C	GLY B	12	9.917	91.279	43.659	1.00	15.26	B	C
ATOM	2092	O	GLY B	12	9.141	92.213	43.899	1.00	15.12	B	O
ATOM	2093	N	PHE B	13	11.024	91.426	42.937	1.00	12.59	B	N
ATOM	2094	CA	PHE B	13	11.376	92.713	42.360	1.00	14.03	B	C
ATOM	2095	CB	PHE B	13	12.702	92.620	41.589	1.00	14.04	B	C
ATOM	2096	CG	PHE B	13	13.929	92.823	42.446	1.00	14.87	B	C
ATOM	2097	CD1	PHE B	13	15.133	93.231	41.868	1.00	16.32	B	C
ATOM	2098	CD2	PHE B	13	13.883	92.629	43.823	1.00	14.64	B	C

Figure 5LL

ATOM	2099	CE1 PHE B 13	16.272	93.448	42.651	1.00	13.70	B	C
ATOM	2100	CE2 PHE B 13	15.013	92.842	44.614	1.00	13.54	B	C
ATOM	2101	CZ PHE B 13	16.210	93.254	44.025	1.00	15.35	B	C
ATOM	2102	C PHE B 13	10.260	93.184	41.425	1.00	14.72	B	C
ATOM	2103	O PHE B 13	10.013	94.380	41.301	1.00	12.42	B	O
ATOM	2104	N SER B 14	9.580	92.243	40.775	1.00	14.71	B	N
ATOM	2105	CA SER B 14	8.494	92.600	39.860	1.00	14.65	B	C
ATOM	2106	CB SER B 14	7.918	91.349	39.187	1.00	14.09	B	C
ATOM	2107	OG SER B 14	7.405	90.436	40.135	1.00	13.06	B	O
ATOM	2108	C SER B 14	7.380	93.355	40.587	1.00	14.07	B	C
ATOM	2109	O SER B 14	6.688	94.187	39.994	1.00	13.89	B	O
ATOM	2110	N VAL B 15	7.212	93.064	41.872	1.00	14.55	B	N
ATOM	2111	CA VAL B 15	6.196	93.737	42.675	1.00	14.09	B	C
ATOM	2112	CB VAL B 15	5.675	92.827	43.814	1.00	12.74	B	C
ATOM	2113	CG1 VAL B 15	4.705	93.600	44.698	1.00	13.09	B	C
ATOM	2114	CG2 VAL B 15	4.971	91.604	43.224	1.00	11.77	B	C
ATOM	2115	C VAL B 15	6.789	95.003	43.283	1.00	14.70	B	C
ATOM	2116	O VAL B 15	6.145	96.052	43.307	1.00	13.74	B	O
ATOM	2117	N LEU B 16	8.022	94.903	43.769	1.00	13.69	B	N
ATOM	2118	CA LEU B 16	8.679	96.048	44.384	1.00	14.26	B	C
ATOM	2119	CB LEU B 16	10.082	95.662	44.863	1.00	13.66	B	C
ATOM	2120	CG LEU B 16	10.940	96.793	45.448	1.00	14.21	B	C
ATOM	2121	CD1 LEU B 16	10.201	97.451	46.605	1.00	12.59	B	C
ATOM	2122	CD2 LEU B 16	12.280	96.242	45.905	1.00	12.19	B	C
ATOM	2123	C LEU B 16	8.757	97.212	43.401	1.00	16.29	B	C
ATOM	2124	O LEU B 16	8.614	98.373	43.787	1.00	16.57	B	O
ATOM	2125	N LYS B 17	8.984	96.896	42.129	1.00	17.51	B	N
ATOM	2126	CA LYS B 17	9.069	97.927	41.099	1.00	19.45	B	C
ATOM	2127	CB LYS B 17	9.349	97.298	39.733	1.00	19.95	B	C
ATOM	2128	CG LYS B 17	9.302	98.291	38.578	1.00	24.40	B	C
ATOM	2129	CD LYS B 17	9.568	97.608	37.245	1.00	29.79	B	C
ATOM	2130	CE LYS B 17	9.472	98.586	36.081	1.00	33.15	B	C
ATOM	2131	NZ LYS B 17	9.808	97.925	34.784	1.00	35.04	B	N
ATOM	2132	C LYS B 17	7.769	98.722	41.038	1.00	19.40	B	C
ATOM	2133	O LYS B 17	7.788	99.950	40.985	1.00	18.81	B	O
ATOM	2134	N SER B 18	6.642	98.018	41.042	1.00	18.29	B	N
ATOM	2135	CA SER B 18	5.344	98.675	40.997	1.00	18.21	B	C
ATOM	2136	CB SER B 18	4.221	97.636	40.941	1.00	17.21	B	C
ATOM	2137	OG SER B 18	4.357	96.808	39.798	1.00	17.80	B	O
ATOM	2138	C SER B 18	5.162	99.561	42.222	1.00	19.88	B	C
ATOM	2139	O SER B 18	4.720	100.703	42.112	1.00	17.77	B	O
ATOM	2140	N LEU B 19	5.510	99.030	43.391	1.00	19.41	B	N
ATOM	2141	CA LEU B 19	5.379	99.785	44.629	1.00	19.33	B	C
ATOM	2142	CB LEU B 19	5.839	98.936	45.817	1.00	18.90	B	C
ATOM	2143	CG LEU B 19	5.085	97.622	46.027	1.00	20.11	B	C
ATOM	2144	CD1 LEU B 19	5.701	96.850	47.188	1.00	18.40	B	C
ATOM	2145	CD2 LEU B 19	3.612	97.919	46.289	1.00	17.29	B	C
ATOM	2146	C LEU B 19	6.205	101.063	44.564	1.00	18.96	B	C
ATOM	2147	O LEU B 19	5.722	102.145	44.897	1.00	19.77	B	O
ATOM	2148	N LEU B 20	7.455	100.930	44.136	1.00	19.62	B	N
ATOM	2149	CA LEU B 20	8.355	102.071	44.024	1.00	20.54	B	C
ATOM	2150	CB LEU B 20	9.736	101.605	43.548	1.00	19.03	B	C
ATOM	2151	CG LEU B 20	10.562	100.763	44.529	1.00	21.61	B	C
ATOM	2152	CD1 LEU B 20	11.789	100.217	43.824	1.00	17.66	B	C
ATOM	2153	CD2 LEU B 20	10.968	101.613	45.731	1.00	17.70	B	C
ATOM	2154	C LEU B 20	7.821	103.148	43.077	1.00	21.80	B	C
ATOM	2155	O LEU B 20	7.864	104.334	43.397	1.00	24.32	B	O
ATOM	2156	N LYS B 21	7.321	102.736	41.916	1.00	22.92	B	N

Figure 5MM

ATOM	2157	CA	LYS	B	21	6.789	103.680	40.932	1.00	25.60	B	C
ATOM	2158	CB	LYS	B	21	6.334	102.934	39.671	1.00	29.64	B	C
ATOM	2159	CG	LYS	B	21	7.412	102.050	39.049	1.00	39.78	B	C
ATOM	2160	CD	LYS	B	21	6.819	100.964	38.139	1.00	45.78	B	C
ATOM	2161	CE	LYS	B	21	6.314	101.521	36.813	1.00	49.52	B	C
ATOM	2162	NZ	LYS	B	21	7.428	101.970	35.926	1.00	52.40	B	N
ATOM	2163	C	LYS	B	21	5.610	104.455	41.513	1.00	24.12	B	C
ATOM	2164	O	LYS	B	21	5.461	105.652	41.270	1.00	21.99	B	O
ATOM	2165	N	ALA	B	22	4.775	103.762	42.281	1.00	22.32	B	N
ATOM	2166	CA	ALA	B	22	3.602	104.378	42.889	1.00	23.02	B	C
ATOM	2167	CB	ALA	B	22	2.619	103.299	43.321	1.00	21.51	B	C
ATOM	2168	C	ALA	B	22	3.950	105.279	44.074	1.00	25.48	B	C
ATOM	2169	O	ALA	B	22	3.082	105.975	44.602	1.00	26.34	B	O
ATOM	2170	N	ARG	B	23	5.214	105.264	44.489	1.00	26.06	B	N
ATOM	2171	CA	ARG	B	23	5.674	106.090	45.606	1.00	28.97	B	C
ATOM	2172	CB	ARG	B	23	5.794	107.556	45.170	1.00	33.33	B	C
ATOM	2173	CG	ARG	B	23	6.504	107.770	43.850	1.00	41.37	B	C
ATOM	2174	CD	ARG	B	23	6.349	109.205	43.378	1.00	47.44	B	C
ATOM	2175	NE	ARG	B	23	6.782	109.366	41.992	1.00	56.48	B	N
ATOM	2176	CZ	ARG	B	23	6.602	110.472	41.275	1.00	59.85	B	C
ATOM	2177	NH1	ARG	B	23	5.998	111.520	41.819	1.00	63.01	B	N
ATOM	2178	NH2	ARG	B	23	7.019	110.529	40.015	1.00	61.13	B	N
ATOM	2179	C	ARG	B	23	4.697	106.012	46.774	1.00	27.89	B	C
ATOM	2180	O	ARG	B	23	4.246	107.042	47.276	1.00	27.91	B	O
ATOM	2181	N	LEU	B	24	4.373	104.797	47.205	1.00	25.94	B	N
ATOM	2182	CA	LEU	B	24	3.430	104.611	48.303	1.00	24.48	B	C
ATOM	2183	CB	LEU	B	24	2.653	103.301	48.118	1.00	22.57	B	C
ATOM	2184	CG	LEU	B	24	1.822	103.103	46.847	1.00	24.84	B	C
ATOM	2185	CD1	LEU	B	24	1.067	101.779	46.942	1.00	23.08	B	C
ATOM	2186	CD2	LEU	B	24	0.842	104.266	46.671	1.00	23.49	B	C
ATOM	2187	C	LEU	B	24	4.048	104.617	49.699	1.00	24.22	B	C
ATOM	2188	O	LEU	B	24	3.445	105.126	50.641	1.00	25.35	B	O
ATOM	2189	N	PHE	B	25	5.250	104.068	49.842	1.00	25.14	B	N
ATOM	2190	CA	PHE	B	25	5.865	103.997	51.161	1.00	25.20	B	C
ATOM	2191	CB	PHE	B	25	6.078	102.531	51.530	1.00	24.64	B	C
ATOM	2192	CG	PHE	B	25	4.886	101.665	51.251	1.00	23.70	B	C
ATOM	2193	CD1	PHE	B	25	4.849	100.851	50.123	1.00	23.04	B	C
ATOM	2194	CD2	PHE	B	25	3.788	101.685	52.098	1.00	22.47	B	C
ATOM	2195	CE1	PHE	B	25	3.729	100.070	49.845	1.00	20.01	B	C
ATOM	2196	CE2	PHE	B	25	2.666	100.910	51.828	1.00	22.66	B	C
ATOM	2197	CZ	PHE	B	25	2.637	100.100	50.697	1.00	21.24	B	C
ATOM	2198	C	PHE	B	25	7.164	104.758	51.361	1.00	25.96	B	C
ATOM	2199	O	PHE	B	25	8.020	104.796	50.482	1.00	28.54	B	O
ATOM	2200	N	ASP	B	26	7.308	105.355	52.540	1.00	26.35	B	N
ATOM	2201	CA	ASP	B	26	8.512	106.108	52.872	1.00	28.67	B	C
ATOM	2202	CB	ASP	B	26	8.300	106.958	54.130	1.00	31.57	B	C
ATOM	2203	CG	ASP	B	26	7.335	108.101	53.907	1.00	33.21	B	C
ATOM	2204	OD1	ASP	B	26	7.429	108.753	52.844	1.00	33.40	B	O
ATOM	2205	OD2	ASP	B	26	6.495	108.352	54.800	1.00	37.72	B	O
ATOM	2206	C	ASP	B	26	9.697	105.186	53.109	1.00	25.51	B	C
ATOM	2207	O	ASP	B	26	10.840	105.567	52.877	1.00	22.85	B	O
ATOM	2208	N	GLU	B	27	9.421	103.974	53.581	1.00	24.08	B	N
ATOM	2209	CA	GLU	B	27	10.483	103.013	53.859	1.00	21.60	B	C
ATOM	2210	CB	GLU	B	27	10.964	103.179	55.305	1.00	22.98	B	C
ATOM	2211	CG	GLU	B	27	11.869	102.071	55.800	1.00	25.73	B	C
ATOM	2212	CD	GLU	B	27	12.636	102.459	57.051	1.00	30.40	B	C
ATOM	2213	OE1	GLU	B	27	12.088	103.219	57.883	1.00	28.18	B	O
ATOM	2214	OE2	GLU	B	27	13.785	101.993	57.207	1.00	28.75	B	O

Figure 5NN

ATOM	2215	C	GLU	B	27	10.036	101.576	53.601	1.00	19.70	B	C
ATOM	2216	O	GLU	B	27	8.919	101.184	53.948	1.00	17.68	B	O
ATOM	2217	N	ILE	B	28	10.926	100.795	52.995	1.00	16.91	B	N
ATOM	2218	CA	ILE	B	28	10.630	99.407	52.651	1.00	14.07	B	C
ATOM	2219	CB	ILE	B	28	10.394	99.276	51.121	1.00	15.11	B	C
ATOM	2220	CG2	ILE	B	28	10.279	97.816	50.711	1.00	15.06	B	C
ATOM	2221	CG1	ILE	B	28	9.124	100.034	50.732	1.00	15.08	B	C
ATOM	2222	CD1	ILE	B	28	8.920	100.162	49.218	1.00	17.55	B	C
ATOM	2223	C	ILE	B	28	11.740	98.446	53.069	1.00	14.73	B	C
ATOM	2224	O	ILE	B	28	12.925	98.694	52.825	1.00	14.43	B	O
ATOM	2225	N	ILE	B	29	11.348	97.357	53.720	1.00	13.73	B	N
ATOM	2226	CA	ILE	B	29	12.299	96.338	54.143	1.00	15.11	B	C
ATOM	2227	CB	ILE	B	29	12.113	95.957	55.636	1.00	14.64	B	C
ATOM	2228	CG2	ILE	B	29	13.231	95.012	56.077	1.00	13.07	B	C
ATOM	2229	CG1	ILE	B	29	12.129	97.214	56.521	1.00	16.50	B	C
ATOM	2230	CD1	ILE	B	29	13.462	97.949	56.554	1.00	12.57	B	C
ATOM	2231	C	ILE	B	29	11.989	95.121	53.262	1.00	14.26	B	C
ATOM	2232	O	ILE	B	29	10.960	94.460	53.438	1.00	16.06	B	O
ATOM	2233	N	TYR	B	30	12.857	94.855	52.293	1.00	12.97	B	N
ATOM	2234	CA	TYR	B	30	12.667	93.728	51.382	1.00	12.66	B	C
ATOM	2235	CB	TYR	B	30	13.095	94.117	49.957	1.00	11.95	B	C
ATOM	2236	CG	TYR	B	30	12.831	93.042	48.913	1.00	11.71	B	C
ATOM	2237	CD1	TYR	B	30	11.703	93.097	48.096	1.00	9.69	B	C
ATOM	2238	CE1	TYR	B	30	11.441	92.100	47.149	1.00	12.54	B	C
ATOM	2239	CD2	TYR	B	30	13.700	91.958	48.762	1.00	12.15	B	C
ATOM	2240	CE2	TYR	B	30	13.449	90.953	47.817	1.00	14.27	B	C
ATOM	2241	CZ	TYR	B	30	12.319	91.033	47.014	1.00	14.57	B	C
ATOM	2242	OH	TYR	B	30	12.078	90.061	46.070	1.00	11.66	B	O
ATOM	2243	C	TYR	B	30	13.473	92.516	51.842	1.00	15.13	B	C
ATOM	2244	O	TYR	B	30	14.673	92.624	52.115	1.00	17.82	B	O
ATOM	2245	N	TYR	B	31	12.812	91.364	51.932	1.00	13.53	B	N
ATOM	2246	CA	TYR	B	31	13.488	90.144	52.350	1.00	13.30	B	C
ATOM	2247	CB	TYR	B	31	13.063	89.742	53.773	1.00	14.35	B	C
ATOM	2248	CG	TYR	B	31	13.588	88.381	54.209	1.00	13.93	B	C
ATOM	2249	CD1	TYR	B	31	14.955	88.143	54.318	1.00	13.81	B	C
ATOM	2250	CE1	TYR	B	31	15.446	86.887	54.682	1.00	16.52	B	C
ATOM	2251	CD2	TYR	B	31	12.712	87.326	54.481	1.00	15.49	B	C
ATOM	2252	CE2	TYR	B	31	13.191	86.064	54.850	1.00	17.62	B	C
ATOM	2253	CZ	TYR	B	31	14.563	85.852	54.946	1.00	14.49	B	C
ATOM	2254	OH	TYR	B	31	15.047	84.611	55.304	1.00	14.75	B	O
ATOM	2255	C	TYR	B	31	13.188	89.005	51.382	1.00	11.69	B	C
ATOM	2256	O	TYR	B	31	12.032	88.657	51.153	1.00	12.79	B	O
ATOM	2257	N	GLY	B	32	14.246	88.440	50.812	1.00	12.78	B	N
ATOM	2258	CA	GLY	B	32	14.093	87.327	49.896	1.00	11.28	B	C
ATOM	2259	C	GLY	B	32	14.761	86.117	50.522	1.00	13.78	B	C
ATOM	2260	O	GLY	B	32	15.950	86.162	50.839	1.00	11.17	B	O
ATOM	2261	N	ASP	B	33	14.002	85.040	50.710	1.00	14.25	B	N
ATOM	2262	CA	ASP	B	33	14.540	83.819	51.306	1.00	15.29	B	C
ATOM	2263	CB	ASP	B	33	13.391	82.987	51.885	1.00	13.57	B	C
ATOM	2264	CG	ASP	B	33	13.871	81.730	52.589	1.00	14.42	B	C
ATOM	2265	OD1	ASP	B	33	15.034	81.702	53.046	1.00	14.38	B	O
ATOM	2266	OD2	ASP	B	33	13.077	80.773	52.695	1.00	14.44	B	O
ATOM	2267	C	ASP	B	33	15.288	83.049	50.226	1.00	14.09	B	C
ATOM	2268	O	ASP	B	33	15.027	81.867	49.980	1.00	12.43	B	O
ATOM	2269	N	SER	B	34	16.238	83.739	49.597	1.00	14.94	B	N
ATOM	2270	CA	SER	B	34	17.016	83.186	48.490	1.00	14.92	B	C
ATOM	2271	CB	SER	B	34	17.941	84.268	47.908	1.00	13.20	B	C
ATOM	2272	OG	SER	B	34	18.886	84.714	48.863	1.00	14.39	B	O

Figure 500

ATOM	2273	C	SER	B	34	17.821	81.924	48.772	1.00	14.53	B	C
ATOM	2274	O	SER	B	34	18.348	81.308	47.849	1.00	12.91	B	O
ATOM	2275	N	ALA	B	35	17.930	81.535	50.034	1.00	13.97	B	N
ATOM	2276	CA	ALA	B	35	18.664	80.317	50.345	1.00	15.25	B	C
ATOM	2277	CB	ALA	B	35	19.050	80.297	51.820	1.00	15.69	B	C
ATOM	2278	C	ALA	B	35	17.801	79.101	50.023	1.00	15.43	B	C
ATOM	2279	O	ALA	B	35	18.321	78.010	49.776	1.00	13.55	B	O
ATOM	2280	N	ARG	B	36	16.484	79.296	50.000	1.00	13.78	B	N
ATOM	2281	CA	ARG	B	36	15.567	78.185	49.777	1.00	14.22	B	C
ATOM	2282	CB	ARG	B	36	14.697	78.023	51.027	1.00	13.17	B	C
ATOM	2283	CG	ARG	B	36	15.541	77.986	52.303	1.00	13.84	B	C
ATOM	2284	CD	ARG	B	36	14.775	77.513	53.520	1.00	16.20	B	C
ATOM	2285	NE	ARG	B	36	13.830	78.511	54.012	1.00	13.15	B	N
ATOM	2286	CZ	ARG	B	36	13.310	78.500	55.235	1.00	14.54	B	C
ATOM	2287	NH1	ARG	B	36	13.642	77.542	56.090	1.00	13.26	B	N
ATOM	2288	NH2	ARG	B	36	12.468	79.454	55.613	1.00	15.47	B	N
ATOM	2289	C	ARG	B	36	14.703	78.235	48.517	1.00	14.96	B	C
ATOM	2290	O	ARG	B	36	13.971	77.288	48.220	1.00	16.93	B	O
ATOM	2291	N	VAL	B	37	14.791	79.328	47.770	1.00	14.56	B	N
ATOM	2292	CA	VAL	B	37	14.036	79.461	46.530	1.00	15.83	B	C
ATOM	2293	CB	VAL	B	37	14.327	80.840	45.875	1.00	16.33	B	C
ATOM	2294	CG1	VAL	B	37	15.775	80.909	45.422	1.00	16.98	B	C
ATOM	2295	CG2	VAL	B	37	13.379	81.093	44.719	1.00	16.47	B	C
ATOM	2296	C	VAL	B	37	14.452	78.312	45.587	1.00	14.68	B	C
ATOM	2297	O	VAL	B	37	15.615	77.895	45.575	1.00	15.45	B	O
ATOM	2298	N	PRO	B	38	13.511	77.780	44.790	1.00	14.64	B	N
ATOM	2299	CD	PRO	B	38	13.845	76.783	43.755	1.00	11.60	B	C
ATOM	2300	CA	PRO	B	38	12.102	78.160	44.696	1.00	14.93	B	C
ATOM	2301	CB	PRO	B	38	11.743	77.754	43.271	1.00	13.51	B	C
ATOM	2302	CG	PRO	B	38	12.485	76.470	43.123	1.00	15.17	B	C
ATOM	2303	C	PRO	B	38	11.191	77.489	45.710	1.00	15.27	B	C
ATOM	2304	O	PRO	B	38	11.510	76.437	46.274	1.00	13.54	B	O
ATOM	2305	N	TYR	B	39	10.043	78.118	45.915	1.00	13.69	B	N
ATOM	2306	CA	TYR	B	39	9.013	77.623	46.811	1.00	13.90	B	C
ATOM	2307	CB	TYR	B	39	8.268	78.798	47.444	1.00	13.72	B	C
ATOM	2308	CG	TYR	B	39	8.922	79.471	48.624	1.00	10.70	B	C
ATOM	2309	CD1	TYR	B	39	10.268	79.261	48.937	1.00	10.84	B	C
ATOM	2310	CE1	TYR	B	39	10.860	79.906	50.023	1.00	12.25	B	C
ATOM	2311	CD2	TYR	B	39	8.186	80.344	49.426	1.00	12.79	B	C
ATOM	2312	CE2	TYR	B	39	8.766	80.996	50.514	1.00	12.39	B	C
ATOM	2313	CZ	TYR	B	39	10.104	80.772	50.809	1.00	13.35	B	C
ATOM	2314	OH	TYR	B	39	10.674	81.405	51.893	1.00	12.01	B	O
ATOM	2315	C	TYR	B	39	7.997	76.821	45.987	1.00	14.02	B	C
ATOM	2316	O	TYR	B	39	7.451	75.827	46.455	1.00	15.23	B	O
ATOM	2317	N	GLY	B	40	7.752	77.290	44.765	1.00	16.75	B	N
ATOM	2318	CA	GLY	B	40	6.768	76.686	43.874	1.00	16.84	B	C
ATOM	2319	C	GLY	B	40	6.860	75.212	43.525	1.00	16.65	B	C
ATOM	2320	O	GLY	B	40	5.886	74.620	43.049	1.00	14.08	B	O
ATOM	2321	N	THR	B	41	8.017	74.611	43.766	1.00	15.91	B	N
ATOM	2322	CA	THR	B	41	8.225	73.204	43.440	1.00	16.59	B	C
ATOM	2323	CB	THR	B	41	9.636	72.990	42.900	1.00	16.07	B	C
ATOM	2324	OG1	THR	B	41	10.580	73.477	43.861	1.00	15.88	B	O
ATOM	2325	CG2	THR	B	41	9.817	73.737	41.592	1.00	19.86	B	C
ATOM	2326	C	THR	B	41	8.072	72.320	44.659	1.00	16.87	B	C
ATOM	2327	O	THR	B	41	8.245	71.099	44.584	1.00	18.68	B	O
ATOM	2328	N	LYS	B	42	7.742	72.939	45.783	1.00	16.57	B	N
ATOM	2329	CA	LYS	B	42	7.647	72.178	47.002	1.00	16.66	B	C
ATOM	2330	CB	LYS	B	42	8.592	72.768	48.035	1.00	15.39	B	C

Figure 5PP

ATOM	2331	CG	LYS	B	42	10.049	72.613	47.578	1.00	16.40	B	C
ATOM	2332	CD	LYS	B	42	10.942	73.766	47.995	1.00	12.99	B	C
ATOM	2333	CE	LYS	B	42	12.343	73.611	47.372	1.00	12.98	B	C
ATOM	2334	NZ	LYS	B	42	13.246	74.754	47.688	1.00	12.01	B	N
ATOM	2335	C	LYS	B	42	6.273	71.981	47.593	1.00	19.30	B	C
ATOM	2336	O	LYS	B	42	5.311	72.659	47.234	1.00	19.46	B	O
ATOM	2337	N	ASP	B	43	6.206	71.042	48.526	1.00	19.11	B	N
ATOM	2338	CA	ASP	B	43	4.903	70.766	49.089	1.00	20.39	B	C
ATOM	2339	CB	ASP	B	43	4.970	69.389	49.727	1.00	26.23	B	C
ATOM	2340	CG	ASP	B	43	3.668	68.908	50.218	1.00	34.18	B	C
ATOM	2341	OD1	ASP	B	43	3.032	69.628	51.023	1.00	35.73	B	O
ATOM	2342	OD2	ASP	B	43	3.286	67.802	49.834	1.00	34.67	B	O
ATOM	2343	C	ASP	B	43	4.324	71.860	50.037	1.00	18.74	B	C
ATOM	2344	O	ASP	B	43	5.067	72.590	50.662	1.00	17.52	B	O
ATOM	2345	N	PRO	B	44	2.970	71.973	50.139	1.00	16.86	B	N
ATOM	2346	CD	PRO	B	44	1.945	71.249	49.366	1.00	16.70	B	C
ATOM	2347	CA	PRO	B	44	2.316	72.976	51.001	1.00	15.67	B	C
ATOM	2348	CB	PRO	B	44	0.838	72.608	50.910	1.00	16.57	B	C
ATOM	2349	CG	PRO	B	44	0.714	72.164	49.520	1.00	15.09	B	C
ATOM	2350	C	PRO	B	44	2.785	73.063	52.460	1.00	14.32	B	C
ATOM	2351	O	PRO	B	44	2.975	74.159	52.984	1.00	14.18	B	O
ATOM	2352	N	THR	B	45	2.968	71.928	53.125	1.00	12.56	B	N
ATOM	2353	CA	THR	B	45	3.404	71.976	54.513	1.00	15.07	B	C
ATOM	2354	CB	THR	B	45	3.416	70.544	55.159	1.00	14.56	B	C
ATOM	2355	OG1	THR	B	45	3.473	70.671	56.582	1.00	20.74	B	O
ATOM	2356	CG2	THR	B	45	4.617	69.725	54.690	1.00	16.79	B	C
ATOM	2357	C	THR	B	45	4.773	72.673	54.661	1.00	13.75	B	C
ATOM	2358	O	THR	B	45	5.015	73.370	55.644	1.00	15.18	B	O
ATOM	2359	N	THR	B	46	5.652	72.512	53.675	1.00	14.31	B	N
ATOM	2360	CA	THR	B	46	6.978	73.138	53.708	1.00	13.76	B	C
ATOM	2361	CB	THR	B	46	7.908	72.534	52.625	1.00	15.70	B	C
ATOM	2362	OG1	THR	B	46	8.111	71.139	52.888	1.00	16.08	B	O
ATOM	2363	CG2	THR	B	46	9.257	73.237	52.611	1.00	14.55	B	C
ATOM	2364	C	THR	B	46	6.874	74.645	53.463	1.00	14.40	B	C
ATOM	2365	O	THR	B	46	7.538	75.450	54.120	1.00	12.91	B	O
ATOM	2366	N	ILE	B	47	6.029	75.016	52.509	1.00	12.98	B	N
ATOM	2367	CA	ILE	B	47	5.843	76.414	52.159	1.00	14.06	B	C
ATOM	2368	CB	ILE	B	47	4.987	76.537	50.881	1.00	12.60	B	C
ATOM	2369	CG2	ILE	B	47	4.790	78.005	50.517	1.00	13.35	B	C
ATOM	2370	CG1	ILE	B	47	5.684	75.804	49.727	1.00	14.48	B	C
ATOM	2371	CD1	ILE	B	47	4.831	75.660	48.469	1.00	13.95	B	C
ATOM	2372	C	ILE	B	47	5.193	77.190	53.305	1.00	13.29	B	C
ATOM	2373	O	ILE	B	47	5.588	78.314	53.610	1.00	12.68	B	O
ATOM	2374	N	LYS	B	48	4.199	76.594	53.948	1.00	13.12	B	N
ATOM	2375	CA	LYS	B	48	3.541	77.279	55.047	1.00	14.82	B	C
ATOM	2376	CB	LYS	B	48	2.387	76.440	55.606	1.00	15.61	B	C
ATOM	2377	CG	LYS	B	48	1.239	76.283	54.621	1.00	16.82	B	C
ATOM	2378	CD	LYS	B	48	0.021	75.649	55.261	1.00	17.71	B	C
ATOM	2379	CE	LYS	B	48	-1.123	75.558	54.259	1.00	21.58	B	C
ATOM	2380	NZ	LYS	B	48	-2.370	75.047	54.891	1.00	23.95	B	N
ATOM	2381	C	LYS	B	48	4.537	77.600	56.145	1.00	15.64	B	C
ATOM	2382	O	LYS	B	48	4.546	78.719	56.661	1.00	14.41	B	O
ATOM	2383	N	GLN	B	49	5.383	76.630	56.493	1.00	13.94	B	N
ATOM	2384	CA	GLN	B	49	6.388	76.836	57.533	1.00	14.63	B	C
ATOM	2385	CB	GLN	B	49	7.127	75.520	57.822	1.00	15.57	B	C
ATOM	2386	CG	GLN	B	49	8.185	75.577	58.930	1.00	19.33	B	C
ATOM	2387	CD	GLN	B	49	7.656	76.099	60.258	1.00	18.82	B	C
ATOM	2388	OE1	GLN	B	49	6.509	75.840	60.638	1.00	17.48	B	O

Figure 5QQ

ATOM	2389	NE2 GLN B 49	8.498	76.826	60.977	1.00	19.58	B	N
ATOM	2390	C GLN B 49	7.357	77.934	57.091	1.00	15.00	B	C
ATOM	2391	O GLN B 49	7.754	78.773	57.898	1.00	15.49	B	O
ATOM	2392	N PHE B 50	7.732	77.936	55.812	1.00	13.73	B	N
ATOM	2393	CA PHE B 50	8.617	78.978	55.297	1.00	12.73	B	C
ATOM	2394	CB PHE B 50	8.813	78.845	53.784	1.00	12.69	B	C
ATOM	2395	CG PHE B 50	9.756	77.740	53.372	1.00	14.11	B	C
ATOM	2396	CD1 PHE B 50	10.540	77.073	54.310	1.00	13.47	B	C
ATOM	2397	CD2 PHE B 50	9.884	77.396	52.028	1.00	16.97	B	C
ATOM	2398	CE1 PHE B 50	11.442	76.080	53.915	1.00	14.96	B	C
ATOM	2399	CE2 PHE B 50	10.784	76.405	51.622	1.00	16.26	B	C
ATOM	2400	CZ PHE B 50	11.563	75.747	52.569	1.00	13.12	B	C
ATOM	2401	C PHE B 50	7.999	80.348	55.586	1.00	12.88	B	C
ATOM	2402	O PHE B 50	8.690	81.281	55.998	1.00	14.04	B	O
ATOM	2403	N GLY B 51	6.692	80.460	55.353	1.00	13.99	B	N
ATOM	2404	CA GLY B 51	5.992	81.712	55.590	1.00	13.72	B	C
ATOM	2405	C GLY B 51	6.023	82.158	57.043	1.00	14.83	B	C
ATOM	2406	O GLY B 51	6.243	83.334	57.331	1.00	11.98	B	O
ATOM	2407	N LEU B 52	5.788	81.227	57.966	1.00	15.32	B	N
ATOM	2408	CA LEU B 52	5.815	81.555	59.388	1.00	18.38	B	C
ATOM	2409	CB LEU B 52	5.525	80.320	60.248	1.00	18.53	B	C
ATOM	2410	CG LEU B 52	4.074	79.939	60.511	1.00	24.25	B	C
ATOM	2411	CD1 LEU B 52	3.349	79.724	59.198	1.00	27.80	B	C
ATOM	2412	CD2 LEU B 52	4.037	78.679	61.371	1.00	26.46	B	C
ATOM	2413	C LEU B 52	7.184	82.091	59.757	1.00	18.61	B	C
ATOM	2414	O LEU B 52	7.303	83.096	60.455	1.00	21.72	B	O
ATOM	2415	N GLU B 53	8.219	81.404	59.289	1.00	18.50	B	N
ATOM	2416	CA GLU B 53	9.584	81.811	59.573	1.00	17.94	B	C
ATOM	2417	CB GLU B 53	10.551	80.751	59.038	1.00	17.42	B	C
ATOM	2418	CG GLU B 53	10.566	79.507	59.927	1.00	15.49	B	C
ATOM	2419	CD GLU B 53	11.305	78.332	59.323	1.00	17.96	B	C
ATOM	2420	OE1 GLU B 53	12.087	78.534	58.374	1.00	18.58	B	O
ATOM	2421	OE2 GLU B 53	11.105	77.201	59.813	1.00	19.70	B	O
ATOM	2422	C GLU B 53	9.897	83.193	59.005	1.00	18.71	B	C
ATOM	2423	O GLU B 53	10.680	83.945	59.579	1.00	19.86	B	O
ATOM	2424	N ALA B 54	9.271	83.537	57.885	1.00	18.53	B	N
ATOM	2425	CA ALA B 54	9.492	84.848	57.283	1.00	16.14	B	C
ATOM	2426	CB ALA B 54	8.744	84.951	55.954	1.00	13.28	B	C
ATOM	2427	C ALA B 54	9.009	85.934	58.257	1.00	18.34	B	C
ATOM	2428	O ALA B 54	9.636	86.987	58.393	1.00	16.94	B	O
ATOM	2429	N LEU B 55	7.898	85.669	58.941	1.00	17.14	B	N
ATOM	2430	CA LEU B 55	7.361	86.629	59.901	1.00	18.57	B	C
ATOM	2431	CB LEU B 55	6.118	86.060	60.594	1.00	19.89	B	C
ATOM	2432	CG LEU B 55	4.827	85.855	59.795	1.00	20.72	B	C
ATOM	2433	CD1 LEU B 55	3.771	85.221	60.706	1.00	22.99	B	C
ATOM	2434	CD2 LEU B 55	4.321	87.192	59.251	1.00	23.42	B	C
ATOM	2435	C LEU B 55	8.405	86.999	60.956	1.00	18.71	B	C
ATOM	2436	O LEU B 55	8.555	88.170	61.301	1.00	17.21	B	O
ATOM	2437	N ASP B 56	9.131	86.002	61.458	1.00	18.83	B	N
ATOM	2438	CA ASP B 56	10.151	86.241	62.474	1.00	18.36	B	C
ATOM	2439	CB ASP B 56	10.829	84.924	62.881	1.00	21.45	B	C
ATOM	2440	CG ASP B 56	9.875	83.958	63.581	1.00	24.57	B	C
ATOM	2441	OD1 ASP B 56	9.003	84.419	64.344	1.00	27.38	B	O
ATOM	2442	OD2 ASP B 56	10.005	82.729	63.383	1.00	26.87	B	O
ATOM	2443	C ASP B 56	11.211	87.240	62.014	1.00	19.11	B	C
ATOM	2444	O ASP B 56	11.669	88.082	62.792	1.00	17.72	B	O
ATOM	2445	N PHE B 57	11.598	87.154	60.746	1.00	17.66	B	N
ATOM	2446	CA PHE B 57	12.607	88.063	60.216	1.00	16.52	B	C

Figure 5RR

ATOM	2447	CB	PHE	B	57	12.867	87.794	58.732	1.00	16.73	B	C
ATOM	2448	CG	PHE	B	57	13.656	88.879	58.071	1.00	17.10	B	C
ATOM	2449	CD1	PHE	B	57	15.035	88.958	58.247	1.00	19.76	B	C
ATOM	2450	CD2	PHE	B	57	13.010	89.889	57.366	1.00	14.93	B	C
ATOM	2451	CE1	PHE	B	57	15.759	90.031	57.738	1.00	19.78	B	C
ATOM	2452	CE2	PHE	B	57	13.721	90.966	56.854	1.00	19.53	B	C
ATOM	2453	CZ	PHE	B	57	15.100	91.039	57.041	1.00	19.60	B	C
ATOM	2454	C	PHE	B	57	12.222	89.529	60.360	1.00	16.52	B	C
ATOM	2455	O	PHE	B	57	13.057	90.365	60.699	1.00	18.03	B	O
ATOM	2456	N	PHE	B	58	10.962	89.842	60.082	1.00	15.91	B	N
ATOM	2457	CA	PHE	B	58	10.497	91.222	60.144	1.00	18.80	B	C
ATOM	2458	CB	PHE	B	58	9.233	91.385	59.295	1.00	17.22	B	C
ATOM	2459	CG	PHE	B	58	9.465	91.219	57.825	1.00	18.15	B	C
ATOM	2460	CD1	PHE	B	58	9.217	90.004	57.199	1.00	18.00	B	C
ATOM	2461	CD2	PHE	B	58	9.927	92.283	57.061	1.00	17.52	B	C
ATOM	2462	CE1	PHE	B	58	9.423	89.852	55.831	1.00	16.31	B	C
ATOM	2463	CE2	PHE	B	58	10.136	92.142	55.694	1.00	16.57	B	C
ATOM	2464	CZ	PHE	B	58	9.884	90.924	55.077	1.00	17.04	B	C
ATOM	2465	C	PHE	B	58	10.224	91.809	61.522	1.00	18.66	B	C
ATOM	2466	O	PHE	B	58	10.140	93.028	61.662	1.00	21.14	B	O
ATOM	2467	N	LYS	B	59	10.080	90.958	62.531	1.00	19.45	B	N
ATOM	2468	CA	LYS	B	59	9.769	91.429	63.877	1.00	21.34	B	C
ATOM	2469	CB	LYS	B	59	9.816	90.258	64.858	1.00	22.87	B	C
ATOM	2470	CG	LYS	B	59	8.740	89.213	64.571	1.00	27.48	B	C
ATOM	2471	CD	LYS	B	59	8.762	88.088	65.585	1.00	28.84	B	C
ATOM	2472	CE	LYS	B	59	7.612	87.121	65.345	1.00	32.72	B	C
ATOM	2473	NZ	LYS	B	59	6.308	87.829	65.430	1.00	35.68	B	N
ATOM	2474	C	LYS	B	59	10.614	92.596	64.384	1.00	20.43	B	C
ATOM	2475	O	LYS	B	59	10.073	93.621	64.792	1.00	19.96	B	O
ATOM	2476	N	PRO	B	60	11.948	92.468	64.356	1.00	20.32	B	N
ATOM	2477	CD	PRO	B	60	12.784	91.337	63.911	1.00	19.12	B	C
ATOM	2478	CA	PRO	B	60	12.776	93.579	64.837	1.00	19.99	B	C
ATOM	2479	CB	PRO	B	60	14.181	92.980	64.848	1.00	21.24	B	C
ATOM	2480	CG	PRO	B	60	14.131	91.991	63.719	1.00	22.69	B	C
ATOM	2481	C	PRO	B	60	12.690	94.859	63.995	1.00	20.53	B	C
ATOM	2482	O	PRO	B	60	13.030	95.943	64.472	1.00	18.48	B	O
ATOM	2483	N	HIS	B	61	12.221	94.740	62.756	1.00	18.92	B	N
ATOM	2484	CA	HIS	B	61	12.116	95.896	61.871	1.00	20.35	B	C
ATOM	2485	CB	HIS	B	61	12.099	95.433	60.413	1.00	19.99	B	C
ATOM	2486	CG	HIS	B	61	13.409	94.875	59.953	1.00	19.89	B	C
ATOM	2487	CD2	HIS	B	61	13.820	93.599	59.768	1.00	21.62	B	C
ATOM	2488	ND1	HIS	B	61	14.499	95.673	59.678	1.00	21.05	B	N
ATOM	2489	CE1	HIS	B	61	15.526	94.912	59.343	1.00	22.27	B	C
ATOM	2490	NE2	HIS	B	61	15.142	93.649	59.390	1.00	21.05	B	N
ATOM	2491	C	HIS	B	61	10.904	96.770	62.170	1.00	21.73	B	C
ATOM	2492	O	HIS	B	61	10.808	97.899	61.691	1.00	22.05	B	O
ATOM	2493	N	GLU	B	62	9.985	96.242	62.969	1.00	21.87	B	N
ATOM	2494	CA	GLU	B	62	8.792	96.982	63.354	1.00	23.56	B	C
ATOM	2495	CB	GLU	B	62	9.181	98.106	64.318	1.00	24.92	B	C
ATOM	2496	CG	GLU	B	62	10.003	97.606	65.496	1.00	30.01	B	C
ATOM	2497	CD	GLU	B	62	10.361	98.699	66.481	1.00	33.69	B	C
ATOM	2498	OE1	GLU	B	62	10.896	99.743	66.053	1.00	35.60	B	O
ATOM	2499	OE2	GLU	B	62	10.116	98.505	67.688	1.00	36.17	B	O
ATOM	2500	C	GLU	B	62	8.044	97.552	62.157	1.00	22.92	B	C
ATOM	2501	O	GLU	B	62	7.701	98.739	62.126	1.00	21.97	B	O
ATOM	2502	N	ILE	B	63	7.795	96.706	61.164	1.00	19.69	B	N
ATOM	2503	CA	ILE	B	63	7.064	97.144	59.987	1.00	18.17	B	C
ATOM	2504	CB	ILE	B	63	7.236	96.149	58.825	1.00	17.22	B	C

Figure S5S

ATOM	2505	CG2 ILE B 63	8.686	96.146	58.370	1.00	15.56	B	C
ATOM	2506	CG1 ILE B 63	6.817	94.746	59.269	1.00	15.21	B	C
ATOM	2507	CD1 ILE B 63	6.745	93.736	58.131	1.00	15.19	B	C
ATOM	2508	C ILE B 63	5.590	97.258	60.375	1.00	18.21	B	C
ATOM	2509	O ILE B 63	5.127	96.575	61.294	1.00	17.53	B	O
ATOM	2510	N GLU B 64	4.859	98.125	59.683	1.00	16.97	B	N
ATOM	2511	CA GLU B 64	3.445	98.349	59.985	1.00	17.61	B	C
ATOM	2512	CB GLU B 64	3.089	99.813	59.718	1.00	18.92	B	C
ATOM	2513	CG GLU B 64	3.934	100.801	60.499	1.00	23.07	B	C
ATOM	2514	CD GLU B 64	3.697	102.235	60.067	1.00	26.42	B	C
ATOM	2515	OE1 GLU B 64	2.541	102.702	60.167	1.00	28.70	B	O
ATOM	2516	OE2 GLU B 64	4.667	102.889	59.624	1.00	25.35	B	O
ATOM	2517	C GLU B 64	2.511	97.452	59.187	1.00	16.83	B	C
ATOM	2518	O GLU B 64	1.349	97.259	59.548	1.00	16.07	B	O
ATOM	2519	N LEU B 65	3.035	96.896	58.104	1.00	17.77	B	N
ATOM	2520	CA LEU B 65	2.261	96.031	57.232	1.00	16.43	B	C
ATOM	2521	CB LEU B 65	1.398	96.895	56.302	1.00	18.09	B	C
ATOM	2522	CG LEU B 65	0.640	96.266	55.133	1.00	21.97	B	C
ATOM	2523	CD1 LEU B 65	-0.529	97.164	54.757	1.00	21.04	B	C
ATOM	2524	CD2 LEU B 65	1.572	96.066	53.944	1.00	20.71	B	C
ATOM	2525	C LEU B 65	3.244	95.195	56.430	1.00	14.51	B	C
ATOM	2526	O LEU B 65	4.345	95.648	56.123	1.00	12.92	B	O
ATOM	2527	N LEU B 66	2.853	93.971	56.102	1.00	14.75	B	N
ATOM	2528	CA LEU B 66	3.722	93.092	55.329	1.00	14.89	B	C
ATOM	2529	CB LEU B 66	4.020	91.810	56.110	1.00	14.10	B	C
ATOM	2530	CG LEU B 66	4.753	90.716	55.326	1.00	16.87	B	C
ATOM	2531	CD1 LEU B 66	6.149	91.214	54.949	1.00	16.67	B	C
ATOM	2532	CD2 LEU B 66	4.844	89.433	56.169	1.00	17.63	B	C
ATOM	2533	C LEU B 66	3.091	92.722	53.995	1.00	14.55	B	C
ATOM	2534	O LEU B 66	1.911	92.374	53.923	1.00	16.90	B	O
ATOM	2535	N ILE B 67	3.884	92.813	52.937	1.00	14.59	B	N
ATOM	2536	CA ILE B 67	3.422	92.451	51.610	1.00	14.92	B	C
ATOM	2537	CB ILE B 67	3.775	93.524	50.560	1.00	17.24	B	C
ATOM	2538	CG2 ILE B 67	3.458	93.000	49.150	1.00	14.44	B	C
ATOM	2539	CG1 ILE B 67	2.995	94.815	50.846	1.00	17.41	B	C
ATOM	2540	CD1 ILE B 67	3.287	95.933	49.859	1.00	18.39	B	C
ATOM	2541	C ILE B 67	4.117	91.159	51.207	1.00	13.22	B	C
ATOM	2542	O ILE B 67	5.344	91.077	51.219	1.00	13.66	B	O
ATOM	2543	N VAL B 68	3.330	90.144	50.875	1.00	13.61	B	N
ATOM	2544	CA VAL B 68	3.898	88.878	50.430	1.00	13.77	B	C
ATOM	2545	CB VAL B 68	3.065	87.683	50.915	1.00	12.35	B	C
ATOM	2546	CG1 VAL B 68	3.692	86.381	50.426	1.00	10.26	B	C
ATOM	2547	CG2 VAL B 68	2.991	87.699	52.438	1.00	12.86	B	C
ATOM	2548	C VAL B 68	3.865	88.950	48.907	1.00	12.64	B	C
ATOM	2549	O VAL B 68	2.839	88.673	48.283	1.00	14.77	B	O
ATOM	2550	N ALA B 69	4.988	89.349	48.319	1.00	12.26	B	N
ATOM	2551	CA ALA B 69	5.101	89.499	46.870	1.00	10.06	B	C
ATOM	2552	CB ALA B 69	6.412	90.194	46.529	1.00	9.84	B	C
ATOM	2553	C ALA B 69	5.027	88.163	46.147	1.00	12.35	B	C
ATOM	2554	O ALA B 69	4.635	88.096	44.980	1.00	9.71	B	O
ATOM	2555	N CYS B 70	5.427	87.104	46.844	1.00	11.11	B	N
ATOM	2556	CA CYS B 70	5.418	85.766	46.273	1.00	11.24	B	C
ATOM	2557	CB CYS B 70	6.207	84.816	47.176	1.00	11.62	B	C
ATOM	2558	SG CYS B 70	6.347	83.142	46.504	1.00	12.64	B	S
ATOM	2559	C CYS B 70	4.001	85.229	46.070	1.00	11.05	B	C
ATOM	2560	O CYS B 70	3.205	85.177	47.010	1.00	11.37	B	O
ATOM	2561	N ASN B 71	3.688	84.823	44.840	1.00	12.49	B	N
ATOM	2562	CA ASN B 71	2.365	84.279	44.543	1.00	11.50	B	C

Figure 5TT

ATOM	2563	CB	ASN	B	71	2.157	84.145	43.031	1.00	9.14	B	C
ATOM	2564	CG	ASN	B	71	2.258	85.471	42.306	1.00	11.76	B	C
ATOM	2565	OD1	ASN	B	71	3.344	86.024	42.151	1.00	10.78	B	O
ATOM	2566	ND2	ASN	B	71	1.117	85.996	41.867	1.00	11.54	B	N
ATOM	2567	C	ASN	B	71	2.192	82.909	45.186	1.00	12.35	B	C
ATOM	2568	O	ASN	B	71	1.078	82.526	45.575	1.00	8.22	B	O
ATOM	2569	N	THR	B	72	3.292	82.164	45.270	1.00	11.41	B	N
ATOM	2570	CA	THR	B	72	3.257	80.831	45.863	1.00	12.16	B	C
ATOM	2571	CB	THR	B	72	4.572	80.062	45.611	1.00	13.52	B	C
ATOM	2572	OG1	THR	B	72	4.704	79.791	44.212	1.00	14.69	B	O
ATOM	2573	CG2	THR	B	72	4.581	78.741	46.380	1.00	11.87	B	C
ATOM	2574	C	THR	B	72	3.012	80.915	47.357	1.00	12.59	B	C
ATOM	2575	O	THR	B	72	2.166	80.200	47.892	1.00	14.73	B	O
ATOM	2576	N	ALA	B	73	3.754	81.784	48.034	1.00	13.02	B	N
ATOM	2577	CA	ALA	B	73	3.576	81.953	49.471	1.00	13.51	B	C
ATOM	2578	CB	ALA	B	73	4.676	82.830	50.044	1.00	13.14	B	C
ATOM	2579	C	ALA	B	73	2.206	82.571	49.739	1.00	13.74	B	C
ATOM	2580	O	ALA	B	73	1.580	82.278	50.752	1.00	12.89	B	O
ATOM	2581	N	SER	B	74	1.751	83.437	48.830	1.00	14.66	B	N
ATOM	2582	CA	SER	B	74	0.439	84.066	48.967	1.00	14.25	B	C
ATOM	2583	CB	SER	B	74	0.212	85.099	47.853	1.00	13.54	B	C
ATOM	2584	OG	SER	B	74	0.996	86.268	48.040	1.00	13.45	B	O
ATOM	2585	C	SER	B	74	-0.655	83.002	48.877	1.00	16.32	B	C
ATOM	2586	O	SER	B	74	-1.668	83.065	49.575	1.00	14.08	B	O
ATOM	2587	N	ALA	B	75	-0.443	82.028	48.002	1.00	16.22	B	N
ATOM	2588	CA	ALA	B	75	-1.416	80.966	47.797	1.00	17.85	B	C
ATOM	2589	CB	ALA	B	75	-1.170	80.291	46.449	1.00	18.98	B	C
ATOM	2590	C	ALA	B	75	-1.438	79.911	48.890	1.00	18.56	B	C
ATOM	2591	O	ALA	B	75	-2.498	79.377	49.217	1.00	19.22	B	O
ATOM	2592	N	LEU	B	76	-0.274	79.608	49.455	1.00	17.86	B	N
ATOM	2593	CA	LEU	B	76	-0.196	78.570	50.473	1.00	19.90	B	C
ATOM	2594	CB	LEU	B	76	0.921	77.580	50.131	1.00	19.60	B	C
ATOM	2595	CG	LEU	B	76	0.703	76.565	49.004	1.00	21.94	B	C
ATOM	2596	CD1	LEU	B	76	-0.579	75.764	49.283	1.00	19.11	B	C
ATOM	2597	CD2	LEU	B	76	0.610	77.284	47.670	1.00	23.22	B	C
ATOM	2598	C	LEU	B	76	-0.021	78.978	51.925	1.00	19.97	B	C
ATOM	2599	O	LEU	B	76	-0.643	78.388	52.800	1.00	19.54	B	O
ATOM	2600	N	ALA	B	77	0.815	79.980	52.183	1.00	20.55	B	N
ATOM	2601	CA	ALA	B	77	1.111	80.380	53.559	1.00	22.00	B	C
ATOM	2602	CB	ALA	B	77	2.616	80.581	53.700	1.00	20.40	B	C
ATOM	2603	C	ALA	B	77	0.392	81.590	54.149	1.00	21.97	B	C
ATOM	2604	O	ALA	B	77	0.420	81.792	55.365	1.00	17.66	B	O
ATOM	2605	N	LEU	B	78	-0.247	82.386	53.299	1.00	23.46	B	N
ATOM	2606	CA	LEU	B	78	-0.916	83.595	53.757	1.00	24.17	B	C
ATOM	2607	CB	LEU	B	78	-1.634	84.271	52.583	1.00	23.46	B	C
ATOM	2608	CG	LEU	B	78	-2.166	85.692	52.799	1.00	24.62	B	C
ATOM	2609	CD1	LEU	B	78	-1.042	86.612	53.256	1.00	25.18	B	C
ATOM	2610	CD2	LEU	B	78	-2.770	86.204	51.499	1.00	21.11	B	C
ATOM	2611	C	LEU	B	78	-1.885	83.387	54.918	1.00	23.63	B	C
ATOM	2612	O	LEU	B	78	-1.820	84.098	55.918	1.00	20.90	B	O
ATOM	2613	N	GLU	B	79	-2.775	82.410	54.798	1.00	24.20	B	N
ATOM	2614	CA	GLU	B	79	-3.744	82.171	55.856	1.00	25.27	B	C
ATOM	2615	CB	GLU	B	79	-4.643	80.987	55.496	1.00	27.94	B	C
ATOM	2616	CG	GLU	B	79	-5.845	80.830	56.417	1.00	34.09	B	C
ATOM	2617	CD	GLU	B	79	-6.760	79.694	55.997	1.00	36.98	B	C
ATOM	2618	OE1	GLU	B	79	-7.246	79.714	54.847	1.00	38.97	B	O
ATOM	2619	OE2	GLU	B	79	-6.994	78.781	56.818	1.00	40.71	B	O
ATOM	2620	C	GLU	B	79	-3.066	81.921	57.199	1.00	24.66	B	C

Figure 5UU

ATOM	2621	O	GLU	B	79	-3.434	82.519	58.208	1.00	21.76	B	O
ATOM	2622	N	GLU	B	80	-2.063	81.050	57.213	1.00	25.11	B	N
ATOM	2623	CA	GLU	B	80	-1.367	80.740	58.455	1.00	25.16	B	C
ATOM	2624	CB	GLU	B	80	-0.425	79.549	58.249	1.00	30.59	B	C
ATOM	2625	CG	GLU	B	80	-0.324	78.632	59.464	1.00	36.68	B	C
ATOM	2626	CD	GLU	B	80	-1.674	78.055	59.876	1.00	39.61	B	C
ATOM	2627	OE1	GLU	B	80	-2.275	77.297	59.085	1.00	42.54	B	O
ATOM	2628	OE2	GLU	B	80	-2.139	78.363	60.993	1.00	41.38	B	O
ATOM	2629	C	GLU	B	80	-0.587	81.942	58.987	1.00	24.73	B	C
ATOM	2630	O	GLU	B	80	-0.590	82.211	60.190	1.00	24.93	B	O
ATOM	2631	N	MET	B	81	0.072	82.670	58.092	1.00	22.49	B	N
ATOM	2632	CA	MET	B	81	0.851	83.838	58.492	1.00	20.82	B	C
ATOM	2633	CB	MET	B	81	1.559	84.437	57.275	1.00	18.38	B	C
ATOM	2634	CG	MET	B	81	2.671	83.563	56.717	1.00	18.17	B	C
ATOM	2635	SD	MET	B	81	3.255	84.147	55.112	1.00	17.68	B	S
ATOM	2636	CE	MET	B	81	4.308	85.481	55.573	1.00	12.45	B	C
ATOM	2637	C	MET	B	81	-0.015	84.907	59.155	1.00	20.81	B	C
ATOM	2638	O	MET	B	81	0.382	85.508	60.154	1.00	19.23	B	O
ATOM	2639	N	GLN	B	82	-1.193	85.145	58.589	1.00	20.82	B	N
ATOM	2640	CA	GLN	B	82	-2.111	86.145	59.129	1.00	22.97	B	C
ATOM	2641	CB	GLN	B	82	-3.286	86.367	58.168	1.00	23.14	B	C
ATOM	2642	CG	GLN	B	82	-2.861	86.867	56.787	1.00	22.68	B	C
ATOM	2643	CD	GLN	B	82	-4.024	87.016	55.821	1.00	25.48	B	C
ATOM	2644	OE1	GLN	B	82	-4.830	86.097	55.650	1.00	24.87	B	O
ATOM	2645	NE2	GLN	B	82	-4.110	88.175	55.172	1.00	25.37	B	N
ATOM	2646	C	GLN	B	82	-2.627	85.695	60.482	1.00	22.69	B	C
ATOM	2647	O	GLN	B	82	-2.905	86.514	61.357	1.00	22.32	B	O
ATOM	2648	N	LYS	B	83	-2.752	84.387	60.656	1.00	24.09	B	N
ATOM	2649	CA	LYS	B	83	-3.235	83.851	61.918	1.00	25.60	B	C
ATOM	2650	CB	LYS	B	83	-3.376	82.328	61.829	1.00	27.86	B	C
ATOM	2651	CG	LYS	B	83	-3.766	81.658	63.141	1.00	32.07	B	C
ATOM	2652	CD	LYS	B	83	-3.799	80.148	62.990	1.00	33.64	B	C
ATOM	2653	CE	LYS	B	83	-4.118	79.453	64.308	1.00	38.06	B	C
ATOM	2654	NZ	LYS	B	83	-4.127	77.965	64.142	1.00	38.15	B	N
ATOM	2655	C	LYS	B	83	-2.298	84.218	63.065	1.00	25.66	B	C
ATOM	2656	O	LYS	B	83	-2.750	84.586	64.149	1.00	23.94	B	O
ATOM	2657	N	TYR	B	84	-0.993	84.134	62.825	1.00	25.08	B	N
ATOM	2658	CA	TYR	B	84	-0.022	84.442	63.870	1.00	24.54	B	C
ATOM	2659	CB	TYR	B	84	1.063	83.367	63.913	1.00	27.22	B	C
ATOM	2660	CG	TYR	B	84	0.542	81.986	64.219	1.00	30.76	B	C
ATOM	2661	CD1	TYR	B	84	0.162	81.119	63.195	1.00	31.28	B	C
ATOM	2662	CE1	TYR	B	84	-0.325	79.844	63.476	1.00	34.59	B	C
ATOM	2663	CD2	TYR	B	84	0.421	81.546	65.538	1.00	32.96	B	C
ATOM	2664	CE2	TYR	B	84	-0.066	80.276	65.832	1.00	35.61	B	C
ATOM	2665	CZ	TYR	B	84	-0.435	79.430	64.797	1.00	36.06	B	C
ATOM	2666	OH	TYR	B	84	-0.904	78.167	65.089	1.00	37.33	B	O
ATOM	2667	C	TYR	B	84	0.641	85.808	63.764	1.00	23.89	B	C
ATOM	2668	O	TYR	B	84	1.704	86.030	64.341	1.00	25.50	B	O
ATOM	2669	N	SER	B	85	0.014	86.726	63.040	1.00	22.10	B	N
ATOM	2670	CA	SER	B	85	0.563	88.067	62.874	1.00	21.74	B	C
ATOM	2671	CB	SER	B	85	0.884	88.323	61.397	1.00	19.79	B	C
ATOM	2672	OG	SER	B	85	1.259	89.673	61.181	1.00	25.60	B	O
ATOM	2673	C	SER	B	85	-0.413	89.127	63.374	1.00	21.62	B	C
ATOM	2674	O	SER	B	85	-1.621	89.009	63.177	1.00	21.34	B	O
ATOM	2675	N	LYS	B	86	0.107	90.157	64.031	1.00	20.33	B	N
ATOM	2676	CA	LYS	B	86	-0.750	91.221	64.519	1.00	22.30	B	C
ATOM	2677	CB	LYS	B	86	-0.235	91.776	65.853	1.00	25.37	B	C
ATOM	2678	CG	LYS	B	86	1.182	92.304	65.826	1.00	31.07	B	C

Figure 5VV

ATOM	2679	CD	LYS	B	86	1.629	92.685	67.231	1.00	35.40	B	C
ATOM	2680	CE	LYS	B	86	1.562	91.486	68.175	1.00	35.66	B	C
ATOM	2681	NZ	LYS	B	86	1.952	91.849	69.565	1.00	39.76	B	N
ATOM	2682	C	LYS	B	86	-0.860	92.333	63.482	1.00	22.13	B	C
ATOM	2683	O	LYS	B	86	-1.871	93.028	63.433	1.00	23.41	B	O
ATOM	2684	N	ILE	B	87	0.169	92.499	62.649	1.00	20.24	B	N
ATOM	2685	CA	ILE	B	87	0.127	93.524	61.605	1.00	18.31	B	C
ATOM	2686	CB	ILE	B	87	1.543	94.004	61.181	1.00	16.92	B	C
ATOM	2687	CG2	ILE	B	87	2.244	94.688	62.359	1.00	18.70	B	C
ATOM	2688	CG1	ILE	B	87	2.361	92.822	60.650	1.00	17.63	B	C
ATOM	2689	CD1	ILE	B	87	3.721	93.203	60.117	1.00	17.00	B	C
ATOM	2690	C	ILE	B	87	-0.559	92.921	60.384	1.00	17.72	B	C
ATOM	2691	O	ILE	B	87	-0.553	91.707	60.193	1.00	18.08	B	O
ATOM	2692	N	PRO	B	88	-1.173	93.762	59.542	1.00	18.77	B	N
ATOM	2693	CD	PRO	B	88	-1.340	95.223	59.619	1.00	17.15	B	C
ATOM	2694	CA	PRO	B	88	-1.839	93.216	58.358	1.00	19.35	B	C
ATOM	2695	CB	PRO	B	88	-2.575	94.428	57.789	1.00	20.10	B	C
ATOM	2696	CG	PRO	B	88	-1.691	95.572	58.194	1.00	21.95	B	C
ATOM	2697	C	PRO	B	88	-0.844	92.619	57.360	1.00	18.71	B	C
ATOM	2698	O	PRO	B	88	0.247	93.148	57.163	1.00	18.85	B	O
ATOM	2699	N	ILE	B	89	-1.222	91.498	56.759	1.00	17.91	B	N
ATOM	2700	CA	ILE	B	89	-0.387	90.848	55.757	1.00	17.91	B	C
ATOM	2701	CB	ILE	B	89	-0.011	89.404	56.164	1.00	18.44	B	C
ATOM	2702	CG2	ILE	B	89	0.952	88.807	55.133	1.00	18.14	B	C
ATOM	2703	CG1	ILE	B	89	0.658	89.408	57.543	1.00	21.01	B	C
ATOM	2704	CD1	ILE	B	89	1.125	88.043	58.007	1.00	18.58	B	C
ATOM	2705	C	ILE	B	89	-1.202	90.823	54.466	1.00	17.23	B	C
ATOM	2706	O	ILE	B	89	-2.323	90.305	54.425	1.00	17.75	B	O
ATOM	2707	N	VAL	B	90	-0.642	91.403	53.414	1.00	16.10	B	N
ATOM	2708	CA	VAL	B	90	-1.334	91.467	52.141	1.00	15.66	B	C
ATOM	2709	CB	VAL	B	90	-1.436	92.934	51.651	1.00	17.82	B	C
ATOM	2710	CG1	VAL	B	90	-2.241	93.001	50.351	1.00	17.58	B	C
ATOM	2711	CG2	VAL	B	90	-2.074	93.805	52.739	1.00	18.13	B	C
ATOM	2712	C	VAL	B	90	-0.612	90.640	51.088	1.00	13.43	B	C
ATOM	2713	O	VAL	B	90	0.567	90.869	50.812	1.00	14.69	B	O
ATOM	2714	N	GLY	B	91	-1.332	89.681	50.511	1.00	13.52	B	N
ATOM	2715	CA	GLY	B	91	-0.773	88.827	49.474	1.00	12.39	B	C
ATOM	2716	C	GLY	B	91	-1.085	89.387	48.093	1.00	14.87	B	C
ATOM	2717	O	GLY	B	91	-1.754	90.414	47.982	1.00	13.52	B	O
ATOM	2718	N	VAL	B	92	-0.618	88.715	47.041	1.00	13.75	B	N
ATOM	2719	CA	VAL	B	92	-0.840	89.190	45.676	1.00	14.98	B	C
ATOM	2720	CB	VAL	B	92	0.447	89.066	44.819	1.00	14.03	B	C
ATOM	2721	CG1	VAL	B	92	1.442	90.130	45.234	1.00	9.89	B	C
ATOM	2722	CG2	VAL	B	92	1.056	87.672	44.978	1.00	12.60	B	C
ATOM	2723	C	VAL	B	92	-1.975	88.505	44.922	1.00	16.65	B	C
ATOM	2724	O	VAL	B	92	-2.194	88.786	43.746	1.00	17.87	B	O
ATOM	2725	N	ILE	B	93	-2.702	87.616	45.585	1.00	16.90	B	N
ATOM	2726	CA	ILE	B	93	-3.798	86.933	44.909	1.00	17.60	B	C
ATOM	2727	CB	ILE	B	93	-3.993	85.514	45.469	1.00	18.08	B	C
ATOM	2728	CG2	ILE	B	93	-5.148	84.825	44.757	1.00	15.25	B	C
ATOM	2729	CG1	ILE	B	93	-2.693	84.722	45.291	1.00	18.10	B	C
ATOM	2730	CD1	ILE	B	93	-2.803	83.256	45.609	1.00	20.71	B	C
ATOM	2731	C	ILE	B	93	-5.125	87.693	44.971	1.00	18.37	B	C
ATOM	2732	O	ILE	B	93	-5.720	87.983	43.930	1.00	19.27	B	O
ATOM	2733	N	GLU	B	94	-5.590	88.021	46.176	1.00	18.78	B	N
ATOM	2734	CA	GLU	B	94	-6.859	88.742	46.315	1.00	21.11	B	C
ATOM	2735	CB	GLU	B	94	-7.198	88.977	47.789	1.00	23.95	B	C
ATOM	2736	CG	GLU	B	94	-7.565	87.705	48.536	1.00	28.58	B	C

Figure 5WW

ATOM	2737	CD	GLU	B	94	-8.651	86.906	47.831	1.00	33.34	B	C
ATOM	2738	OE1	GLU	B	94	-9.700	87.494	47.484	1.00	32.87	B	O
ATOM	2739	OE2	GLU	B	94	-8.453	85.686	47.627	1.00	36.08	B	O
ATOM	2740	C	GLU	B	94	-6.873	90.073	45.568	1.00	20.94	B	C
ATOM	2741	O	GLU	B	94	-7.882	90.439	44.960	1.00	21.06	B	O
ATOM	2742	N	PRO	B	95	-5.760	90.823	45.615	1.00	19.29	B	N
ATOM	2743	CD	PRO	B	95	-4.581	90.667	46.487	1.00	17.34	B	C
ATOM	2744	CA	PRO	B	95	-5.714	92.108	44.909	1.00	19.84	B	C
ATOM	2745	CB	PRO	B	95	-4.301	92.603	45.196	1.00	18.81	B	C
ATOM	2746	CG	PRO	B	95	-4.058	92.087	46.580	1.00	19.00	B	C
ATOM	2747	C	PRO	B	95	-5.971	91.933	43.415	1.00	18.63	B	C
ATOM	2748	O	PRO	B	95	-6.588	92.786	42.771	1.00	19.30	B	O
ATOM	2749	N	SER	B	96	-5.485	90.824	42.867	1.00	20.23	B	N
ATOM	2750	CA	SER	B	96	-5.661	90.532	41.451	1.00	19.54	B	C
ATOM	2751	CB	SER	B	96	-4.752	89.380	41.032	1.00	20.19	B	C
ATOM	2752	OG	SER	B	96	-3.398	89.803	41.022	1.00	21.10	B	O
ATOM	2753	C	SER	B	96	-7.107	90.194	41.137	1.00	19.82	B	C
ATOM	2754	O	SER	B	96	-7.623	90.554	40.076	1.00	18.36	B	O
ATOM	2755	N	ILE	B	97	-7.761	89.496	42.060	1.00	19.40	B	N
ATOM	2756	CA	ILE	B	97	-9.159	89.129	41.869	1.00	21.46	B	C
ATOM	2757	CB	ILE	B	97	-9.702	88.310	43.066	1.00	20.75	B	C
ATOM	2758	CG2	ILE	B	97	-11.185	88.032	42.872	1.00	23.74	B	C
ATOM	2759	CG1	ILE	B	97	-8.929	86.996	43.205	1.00	20.33	B	C
ATOM	2760	CD1	ILE	B	97	-9.130	86.028	42.048	1.00	18.39	B	C
ATOM	2761	C	ILE	B	97	-9.985	90.408	41.741	1.00	20.42	B	C
ATOM	2762	O	ILE	B	97	-10.881	90.502	40.904	1.00	21.88	B	O
ATOM	2763	N	LEU	B	98	-9.670	91.393	42.575	1.00	22.89	B	N
ATOM	2764	CA	LEU	B	98	-10.378	92.668	42.561	1.00	22.94	B	C
ATOM	2765	CB	LEU	B	98	-9.918	93.539	43.734	1.00	24.42	B	C
ATOM	2766	CG	LEU	B	98	-10.197	92.998	45.143	1.00	24.87	B	C
ATOM	2767	CD1	LEU	B	98	-9.532	93.893	46.172	1.00	27.53	B	C
ATOM	2768	CD2	LEU	B	98	-11.701	92.922	45.389	1.00	25.92	B	C
ATOM	2769	C	LEU	B	98	-10.150	93.411	41.249	1.00	23.55	B	C
ATOM	2770	O	LEU	B	98	-11.067	94.032	40.708	1.00	24.17	B	O
ATOM	2771	N	ALA	B	99	-8.924	93.351	40.740	1.00	23.11	B	N
ATOM	2772	CA	ALA	B	99	-8.594	94.025	39.491	1.00	22.89	B	C
ATOM	2773	CB	ALA	B	99	-7.110	93.904	39.208	1.00	22.27	B	C
ATOM	2774	C	ALA	B	99	-9.390	93.395	38.362	1.00	21.70	B	C
ATOM	2775	O	ALA	B	99	-9.921	94.090	37.497	1.00	18.65	B	O
ATOM	2776	N	ILE	B	100	-9.457	92.068	38.377	1.00	19.64	B	N
ATOM	2777	CA	ILE	B	100	-10.190	91.331	37.363	1.00	19.82	B	C
ATOM	2778	CB	ILE	B	100	-10.044	89.803	37.568	1.00	21.33	B	C
ATOM	2779	CG2	ILE	B	100	-11.118	89.054	36.784	1.00	19.75	B	C
ATOM	2780	CG1	ILE	B	100	-8.644	89.357	37.134	1.00	20.47	B	C
ATOM	2781	CD1	ILE	B	100	-8.425	87.859	37.227	1.00	23.03	B	C
ATOM	2782	C	ILE	B	100	-11.664	91.717	37.413	1.00	20.18	B	C
ATOM	2783	O	ILE	B	100	-12.310	91.842	36.378	1.00	17.92	B	O
ATOM	2784	N	LYS	B	101	-12.192	91.910	38.617	1.00	21.96	B	N
ATOM	2785	CA	LYS	B	101	-13.594	92.296	38.755	1.00	24.71	B	C
ATOM	2786	CB	LYS	B	101	-13.980	92.434	40.229	1.00	25.47	B	C
ATOM	2787	CG	LYS	B	101	-14.034	91.120	40.988	1.00	30.47	B	C
ATOM	2788	CD	LYS	B	101	-14.348	91.358	42.460	1.00	36.47	B	C
ATOM	2789	CE	LYS	B	101	-15.720	91.992	42.654	1.00	39.30	B	C
ATOM	2790	NZ	LYS	B	101	-15.973	92.336	44.087	1.00	42.89	B	N
ATOM	2791	C	LYS	B	101	-13.831	93.623	38.041	1.00	24.26	B	C
ATOM	2792	O	LYS	B	101	-14.846	93.797	37.369	1.00	25.28	B	O
ATOM	2793	N	ARG	B	102	-12.886	94.548	38.185	1.00	23.53	B	N
ATOM	2794	CA	ARG	B	102	-12.986	95.865	37.559	1.00	24.45	B	C

Figure 5XX

ATOM	2795	CB	ARG B 102	-11.976	96.835	38.182	1.00	24.23	B	C
ATOM	2796	CG	ARG B 102	-12.234	97.217	39.625	1.00	25.40	B	C
ATOM	2797	CD	ARG B 102	-11.276	98.316	40.054	1.00	26.37	B	C
ATOM	2798	NE	ARG B 102	-9.888	97.863	40.086	1.00	27.81	B	N
ATOM	2799	CZ	ARG B 102	-9.328	97.229	41.114	1.00	27.91	B	C
ATOM	2800	NH1	ARG B 102	-10.035	96.972	42.206	1.00	27.77	B	N
ATOM	2801	NH2	ARG B 102	-8.058	96.857	41.051	1.00	22.49	B	N
ATOM	2802	C	ARG B 102	-12.747	95.846	36.051	1.00	23.56	B	C
ATOM	2803	O	ARG B 102	-13.394	96.576	35.306	1.00	21.65	B	O
ATOM	2804	N	GLN B 103	-11.816	95.010	35.605	1.00	22.46	B	N
ATOM	2805	CA	GLN B 103	-11.474	94.951	34.189	1.00	22.58	B	C
ATOM	2806	CB	GLN B 103	-9.972	94.728	34.036	1.00	21.32	B	C
ATOM	2807	CG	GLN B 103	-9.126	95.766	34.733	1.00	22.61	B	C
ATOM	2808	CD	GLN B 103	-7.659	95.405	34.712	1.00	22.94	B	C
ATOM	2809	OE1	GLN B 103	-7.074	95.216	33.647	1.00	24.42	B	O
ATOM	2810	NE2	GLN B 103	-7.055	95.305	35.890	1.00	22.74	B	N
ATOM	2811	C	GLN B 103	-12.206	93.918	33.349	1.00	22.98	B	C
ATOM	2812	O	GLN B 103	-12.221	94.020	32.126	1.00	23.73	B	O
ATOM	2813	N	VAL B 104	-12.807	92.925	33.989	1.00	22.89	B	N
ATOM	2814	CA	VAL B 104	-13.500	91.881	33.241	1.00	24.65	B	C
ATOM	2815	CB	VAL B 104	-12.796	90.518	33.427	1.00	25.96	B	C
ATOM	2816	CG1	VAL B 104	-13.465	89.462	32.568	1.00	25.99	B	C
ATOM	2817	CG2	VAL B 104	-11.321	90.643	33.066	1.00	24.05	B	C
ATOM	2818	C	VAL B 104	-14.957	91.752	33.663	1.00	26.14	B	C
ATOM	2819	O	VAL B 104	-15.284	90.975	34.557	1.00	23.04	B	O
ATOM	2820	N	GLU B 105	-15.821	92.515	33.000	1.00	28.13	B	N
ATOM	2821	CA	GLU B 105	-17.253	92.520	33.289	1.00	31.78	B	C
ATOM	2822	CB	GLU B 105	-17.923	93.703	32.581	1.00	37.19	B	C
ATOM	2823	CG	GLU B 105	-17.318	95.053	32.940	1.00	47.02	B	C
ATOM	2824	CD	GLU B 105	-17.983	96.226	32.231	1.00	50.74	B	C
ATOM	2825	OE1	GLU B 105	-18.016	96.247	30.979	1.00	51.99	B	O
ATOM	2826	OE2	GLU B 105	-18.469	97.136	32.933	1.00	54.70	B	O
ATOM	2827	C	GLU B 105	-17.953	91.231	32.877	1.00	29.48	B	C
ATOM	2828	O	GLU B 105	-18.915	90.807	33.518	1.00	32.30	B	O
ATOM	2829	N	ASP B 106	-17.471	90.608	31.808	1.00	27.12	B	N
ATOM	2830	CA	ASP B 106	-18.067	89.377	31.310	1.00	26.01	B	C
ATOM	2831	CB	ASP B 106	-17.666	89.167	29.850	1.00	26.98	B	C
ATOM	2832	CG	ASP B 106	-18.215	87.881	29.272	1.00	28.23	B	C
ATOM	2833	OD1	ASP B 106	-19.054	87.232	29.930	1.00	28.83	B	O
ATOM	2834	OD2	ASP B 106	-17.807	87.521	28.147	1.00	31.85	B	O
ATOM	2835	C	ASP B 106	-17.666	88.168	32.147	1.00	25.85	B	C
ATOM	2836	O	ASP B 106	-16.517	87.736	32.118	1.00	24.84	B	O
ATOM	2837	N	LYS B 107	-18.628	87.626	32.890	1.00	25.49	B	N
ATOM	2838	CA	LYS B 107	-18.396	86.472	33.754	1.00	27.31	B	C
ATOM	2839	CB	LYS B 107	-19.633	86.210	34.622	1.00	29.26	B	C
ATOM	2840	CG	LYS B 107	-19.948	87.328	35.600	1.00	32.01	B	C
ATOM	2841	CD	LYS B 107	-18.757	87.611	36.512	1.00	33.91	B	C
ATOM	2842	CE	LYS B 107	-19.056	88.718	37.516	1.00	34.29	B	C
ATOM	2843	NZ	LYS B 107	-19.369	90.016	36.853	1.00	41.19	B	N
ATOM	2844	C	LYS B 107	-18.044	85.203	32.991	1.00	26.67	B	C
ATOM	2845	O	LYS B 107	-17.508	84.254	33.565	1.00	28.78	B	O
ATOM	2846	N	ASN B 108	-18.337	85.187	31.698	1.00	26.36	B	N
ATOM	2847	CA	ASN B 108	-18.059	84.019	30.875	1.00	27.30	B	C
ATOM	2848	CB	ASN B 108	-19.176	83.833	29.848	1.00	32.21	B	C
ATOM	2849	CG	ASN B 108	-20.509	83.515	30.496	1.00	37.21	B	C
ATOM	2850	OD1	ASN B 108	-20.670	82.470	31.130	1.00	41.66	B	O
ATOM	2851	ND2	ASN B 108	-21.473	84.420	30.350	1.00	39.88	B	N
ATOM	2852	C	ASN B 108	-16.719	84.106	30.160	1.00	25.00	B	C

Figure 5YY

ATOM	2853	O	ASN B 108	-16.318	83.173	29.467	1.00	27.12	B	O
ATOM	2854	N	ALA B 109	-16.029	85.227	30.333	1.00	22.44	B	N
ATOM	2855	CA	ALA B 109	-14.734	85.427	29.696	1.00	22.32	B	C
ATOM	2856	CB	ALA B 109	-14.179	86.795	30.062	1.00	19.60	B	C
ATOM	2857	C	ALA B 109	-13.768	84.334	30.133	1.00	21.09	B	C
ATOM	2858	O	ALA B 109	-13.580	84.107	31.326	1.00	21.33	B	O
ATOM	2859	N	PRO B 110	-13.152	83.635	29.168	1.00	21.10	B	N
ATOM	2860	CD	PRO B 110	-13.315	83.775	27.711	1.00	21.88	B	C
ATOM	2861	CA	PRO B 110	-12.201	82.562	29.485	1.00	21.55	B	C
ATOM	2862	CB	PRO B 110	-11.843	81.988	28.111	1.00	20.46	B	C
ATOM	2863	CG	PRO B 110	-13.002	82.387	27.233	1.00	23.31	B	C
ATOM	2864	C	PRO B 110	-10.974	83.142	30.190	1.00	21.39	B	C
ATOM	2865	O	PRO B 110	-10.243	83.950	29.615	1.00	20.23	B	O
ATOM	2866	N	ILE B 111	-10.757	82.731	31.433	1.00	20.74	B	N
ATOM	2867	CA	ILE B 111	-9.621	83.220	32.208	1.00	21.29	B	C
ATOM	2868	CB	ILE B 111	-10.085	83.770	33.575	1.00	18.70	B	C
ATOM	2869	CG2	ILE B 111	-8.883	84.214	34.398	1.00	19.35	B	C
ATOM	2870	CG1	ILE B 111	-11.054	84.937	33.365	1.00	17.87	B	C
ATOM	2871	CD1	ILE B 111	-11.768	85.374	34.632	1.00	13.74	B	C
ATOM	2872	C	ILE B 111	-8.618	82.096	32.439	1.00	20.50	B	C
ATOM	2873	O	ILE B 111	-8.983	81.017	32.900	1.00	21.37	B	O
ATOM	2874	N	LEU B 112	-7.358	82.354	32.107	1.00	19.57	B	N
ATOM	2875	CA	LEU B 112	-6.302	81.367	32.285	1.00	18.55	B	C
ATOM	2876	CB	LEU B 112	-5.538	81.154	30.975	1.00	17.95	B	C
ATOM	2877	CG	LEU B 112	-4.340	80.200	31.024	1.00	18.08	B	C
ATOM	2878	CD1	LEU B 112	-4.774	78.812	31.482	1.00	19.26	B	C
ATOM	2879	CD2	LEU B 112	-3.713	80.132	29.640	1.00	16.52	B	C
ATOM	2880	C	LEU B 112	-5.329	81.799	33.370	1.00	18.08	B	C
ATOM	2881	O	LEU B 112	-4.731	82.873	33.291	1.00	19.20	B	O
ATOM	2882	N	VAL B 113	-5.171	80.951	34.380	1.00	16.92	B	N
ATOM	2883	CA	VAL B 113	-4.269	81.231	35.487	1.00	16.68	B	C
ATOM	2884	CB	VAL B 113	-4.863	80.728	36.835	1.00	17.69	B	C
ATOM	2885	CG1	VAL B 113	-3.945	81.110	37.994	1.00	17.55	B	C
ATOM	2886	CG2	VAL B 113	-6.244	81.309	37.050	1.00	17.01	B	C
ATOM	2887	C	VAL B 113	-2.943	80.516	35.243	1.00	16.02	B	C
ATOM	2888	O	VAL B 113	-2.921	79.308	34.999	1.00	14.64	B	O
ATOM	2889	N	LEU B 114	-1.845	81.267	35.291	1.00	14.63	B	N
ATOM	2890	CA	LEU B 114	-0.520	80.692	35.104	1.00	13.92	B	C
ATOM	2891	CB	LEU B 114	0.247	81.395	33.979	1.00	11.65	B	C
ATOM	2892	CG	LEU B 114	-0.330	81.466	32.566	1.00	17.67	B	C
ATOM	2893	CD1	LEU B 114	0.736	82.064	31.644	1.00	16.72	B	C
ATOM	2894	CD2	LEU B 114	-0.738	80.081	32.077	1.00	17.71	B	C
ATOM	2895	C	LEU B 114	0.256	80.881	36.399	1.00	14.25	B	C
ATOM	2896	O	LEU B 114	0.210	81.947	37.005	1.00	11.47	B	O
ATOM	2897	N	GLY B 115	0.984	79.855	36.813	1.00	14.70	B	N
ATOM	2898	CA	GLY B 115	1.757	79.971	38.037	1.00	15.73	B	C
ATOM	2899	C	GLY B 115	2.608	78.746	38.289	1.00	14.74	B	C
ATOM	2900	O	GLY B 115	2.693	77.855	37.451	1.00	13.78	B	O
ATOM	2901	N	THR B 116	3.252	78.706	39.447	1.00	16.02	B	N
ATOM	2902	CA	THR B 116	4.087	77.568	39.798	1.00	15.11	B	C
ATOM	2903	CB	THR B 116	4.916	77.860	41.045	1.00	14.07	B	C
ATOM	2904	OG1	THR B 116	4.040	78.104	42.155	1.00	12.96	B	O
ATOM	2905	CG2	THR B 116	5.800	79.074	40.814	1.00	13.81	B	C
ATOM	2906	C	THR B 116	3.182	76.375	40.083	1.00	15.15	B	C
ATOM	2907	O	THR B 116	1.974	76.528	40.260	1.00	15.43	B	O
ATOM	2908	N	LYS B 117	3.768	75.189	40.124	1.00	14.92	B	N
ATOM	2909	CA	LYS B 117	2.998	73.991	40.401	1.00	16.68	B	C
ATOM	2910	CB	LYS B 117	3.926	72.776	40.462	1.00	18.20	B	C

Figure 5ZZ

ATOM	2911	CG	LYS	B 117	3.170	71.459	40.516	1.00	28.15	B	C
ATOM	2912	CD	LYS	B 117	2.286	71.334	39.280	1.00	34.68	B	C
ATOM	2913	CE	LYS	B 117	1.422	70.089	39.310	1.00	37.95	B	C
ATOM	2914	NZ	LYS	B 117	0.628	69.995	38.057	1.00	40.68	B	N
ATOM	2915	C	LYS	B 117	2.231	74.125	41.725	1.00	15.54	B	C
ATOM	2916	O	LYS	B 117	1.055	73.772	41.811	1.00	13.25	B	O
ATOM	2917	N	ALA	B 118	2.896	74.648	42.753	1.00	13.55	B	N
ATOM	2918	CA	ALA	B 118	2.263	74.797	44.062	1.00	13.07	B	C
ATOM	2919	CB	ALA	B 118	3.294	75.271	45.092	1.00	13.77	B	C
ATOM	2920	C	ALA	B 118	1.084	75.755	44.020	1.00	13.96	B	C
ATOM	2921	O	ALA	B 118	0.022	75.478	44.584	1.00	12.32	B	O
ATOM	2922	N	THR	B 119	1.270	76.887	43.347	1.00	12.40	B	N
ATOM	2923	CA	THR	B 119	0.204	77.874	43.248	1.00	14.50	B	C
ATOM	2924	CB	THR	B 119	0.698	79.159	42.534	1.00	11.89	B	C
ATOM	2925	OG1	THR	B 119	1.739	79.763	43.311	1.00	13.56	B	O
ATOM	2926	CG2	THR	B 119	-0.443	80.158	42.373	1.00	12.19	B	C
ATOM	2927	C	THR	B 119	-1.005	77.312	42.504	1.00	12.61	B	C
ATOM	2928	O	THR	B 119	-2.140	77.473	42.942	1.00	15.20	B	O
ATOM	2929	N	ILE	B 120	-0.759	76.641	41.385	1.00	13.07	B	N
ATOM	2930	CA	ILE	B 120	-1.847	76.080	40.594	1.00	17.11	B	C
ATOM	2931	CB	ILE	B 120	-1.333	75.521	39.242	1.00	15.75	B	C
ATOM	2932	CG2	ILE	B 120	-2.499	74.993	38.418	1.00	19.67	B	C
ATOM	2933	CG1	ILE	B 120	-0.600	76.620	38.461	1.00	15.38	B	C
ATOM	2934	CD1	ILE	B 120	-1.456	77.829	38.120	1.00	19.05	B	C
ATOM	2935	C	ILE	B 120	-2.605	74.971	41.331	1.00	17.21	B	C
ATOM	2936	O	ILE	B 120	-3.832	74.938	41.309	1.00	18.55	B	O
ATOM	2937	N	GLN	B 121	-1.887	74.064	41.984	1.00	17.85	B	N
ATOM	2938	CA	GLN	B 121	-2.554	72.983	42.700	1.00	21.02	B	C
ATOM	2939	CB	GLN	B 121	-1.539	71.946	43.177	1.00	23.26	B	C
ATOM	2940	CG	GLN	B 121	-0.796	71.267	42.053	1.00	31.27	B	C
ATOM	2941	CD	GLN	B 121	-0.046	70.038	42.509	1.00	34.42	B	C
ATOM	2942	OE1	GLN	B 121	0.702	70.078	43.488	1.00	38.77	B	O
ATOM	2943	NE2	GLN	B 121	-0.237	68.933	41.797	1.00	36.80	B	N
ATOM	2944	C	GLN	B 121	-3.375	73.477	43.894	1.00	21.84	B	C
ATOM	2945	O	GLN	B 121	-4.297	72.795	44.345	1.00	23.51	B	O
ATOM	2946	N	SER	B 122	-3.056	74.661	44.404	1.00	20.44	B	N
ATOM	2947	CA	SER	B 122	-3.791	75.193	45.549	1.00	20.89	B	C
ATOM	2948	CB	SER	B 122	-3.024	76.348	46.208	1.00	20.03	B	C
ATOM	2949	OG	SER	B 122	-3.115	77.537	45.438	1.00	19.77	B	O
ATOM	2950	C	SER	B 122	-5.178	75.687	45.152	1.00	19.13	B	C
ATOM	2951	O	SER	B 122	-6.057	75.812	46.000	1.00	18.67	B	O
ATOM	2952	N	ASN	B 123	-5.362	75.960	43.864	1.00	20.34	B	N
ATOM	2953	CA	ASN	B 123	-6.626	76.476	43.345	1.00	21.65	B	C
ATOM	2954	CB	ASN	B 123	-7.756	75.464	43.543	1.00	24.19	B	C
ATOM	2955	CG	ASN	B 123	-7.662	74.302	42.583	1.00	28.22	B	C
ATOM	2956	OD1	ASN	B 123	-7.618	74.492	41.368	1.00	28.03	B	O
ATOM	2957	ND2	ASN	B 123	-7.632	73.087	43.121	1.00	31.95	B	N
ATOM	2958	C	ASN	B 123	-6.990	77.787	44.025	1.00	20.93	B	C
ATOM	2959	O	ASN	B 123	-8.162	78.160	44.098	1.00	20.81	B	O
ATOM	2960	N	ALA	B 124	-5.977	78.488	44.520	1.00	18.37	B	N
ATOM	2961	CA	ALA	B 124	-6.205	79.759	45.187	1.00	19.77	B	C
ATOM	2962	CB	ALA	B 124	-4.872	80.387	45.588	1.00	18.94	B	C
ATOM	2963	C	ALA	B 124	-6.993	80.715	44.285	1.00	18.40	B	C
ATOM	2964	O	ALA	B 124	-8.032	81.239	44.685	1.00	20.72	B	O
ATOM	2965	N	TYR	B 125	-6.506	80.936	43.069	1.00	19.24	B	N
ATOM	2966	CA	TYR	B 125	-7.184	81.841	42.142	1.00	19.32	B	C
ATOM	2967	CB	TYR	B 125	-6.331	82.091	40.892	1.00	19.37	B	C
ATOM	2968	CG	TYR	B 125	-5.129	82.989	41.102	1.00	19.31	B	C

Figure 5AAA

ATOM	2969	CD1 TYR B 125	-3.887	82.457	41.439	1.00	17.61	B	C
ATOM	2970	CE1 TYR B 125	-2.768	83.280	41.591	1.00	18.62	B	C
ATOM	2971	CD2 TYR B 125	-5.228	84.371	40.929	1.00	17.15	B	C
ATOM	2972	CE2 TYR B 125	-4.123	85.197	41.078	1.00	16.64	B	C
ATOM	2973	CZ TYR B 125	-2.895	84.646	41.405	1.00	17.43	B	C
ATOM	2974	OH TYR B 125	-1.792	85.454	41.520	1.00	17.10	B	O
ATOM	2975	C TYR B 125	-8.553	81.340	41.696	1.00	19.25	B	C
ATOM	2976	O TYR B 125	-9.528	82.096	41.688	1.00	18.74	B	O
ATOM	2977	N ASP B 126	-8.617	80.071	41.310	1.00	18.47	B	N
ATOM	2978	CA ASP B 126	-9.862	79.473	40.841	1.00	19.68	B	C
ATOM	2979	CB ASP B 126	-9.660	77.986	40.552	1.00	19.72	B	C
ATOM	2980	CG ASP B 126	-8.455	77.720	39.671	1.00	23.51	B	C
ATOM	2981	OD1 ASP B 126	-7.341	78.138	40.042	1.00	24.96	B	O
ATOM	2982	OD2 ASP B 126	-8.621	77.085	38.609	1.00	22.93	B	O
ATOM	2983	C ASP B 126	-10.972	79.635	41.868	1.00	21.84	B	C
ATOM	2984	O ASP B 126	-12.076	80.077	41.541	1.00	18.17	B	O
ATOM	2985	N ASN B 127	-10.676	79.273	43.113	1.00	21.58	B	N
ATOM	2986	CA ASN B 127	-11.659	79.376	44.181	1.00	22.68	B	C
ATOM	2987	CB ASN B 127	-11.081	78.839	45.495	1.00	22.98	B	C
ATOM	2988	CG ASN B 127	-10.656	77.385	45.393	1.00	26.68	B	C
ATOM	2989	OD1 ASN B 127	-11.290	76.591	44.701	1.00	26.92	B	O
ATOM	2990	ND2 ASN B 127	-9.582	77.029	46.092	1.00	29.75	B	N
ATOM	2991	C ASN B 127	-12.105	80.821	44.362	1.00	22.20	B	C
ATOM	2992	O ASN B 127	-13.300	81.104	44.443	1.00	22.96	B	O
ATOM	2993	N ALA B 128	-11.145	81.736	44.422	1.00	21.77	B	N
ATOM	2994	CA ALA B 128	-11.465	83.149	44.587	1.00	22.81	B	C
ATOM	2995	CB ALA B 128	-10.184	83.970	44.693	1.00	24.04	B	C
ATOM	2996	C ALA B 128	-12.315	83.643	43.422	1.00	24.10	B	C
ATOM	2997	O ALA B 128	-13.302	84.354	43.624	1.00	27.04	B	O
ATOM	2998	N LEU B 129	-11.935	83.262	42.205	1.00	24.54	B	N
ATOM	2999	CA LEU B 129	-12.672	83.664	41.012	1.00	24.58	B	C
ATOM	3000	CB LEU B 129	-11.926	83.225	39.753	1.00	22.03	B	C
ATOM	3001	CG LEU B 129	-10.633	83.975	39.418	1.00	24.03	B	C
ATOM	3002	CD1 LEU B 129	-9.865	83.210	38.366	1.00	22.36	B	C
ATOM	3003	CD2 LEU B 129	-10.956	85.382	38.932	1.00	22.58	B	C
ATOM	3004	C LEU B 129	-14.078	83.070	41.005	1.00	26.08	B	C
ATOM	3005	O LEU B 129	-15.046	83.751	40.669	1.00	26.16	B	O
ATOM	3006	N LYS B 130	-14.185	81.795	41.365	1.00	26.80	B	N
ATOM	3007	CA LYS B 130	-15.482	81.130	41.404	1.00	29.37	B	C
ATOM	3008	CB LYS B 130	-15.326	79.694	41.904	1.00	32.59	B	C
ATOM	3009	CG LYS B 130	-16.638	78.939	42.019	1.00	37.42	B	C
ATOM	3010	CD LYS B 130	-17.337	78.877	40.675	1.00	43.42	B	C
ATOM	3011	CE LYS B 130	-18.708	78.237	40.775	1.00	45.02	B	C
ATOM	3012	NZ LYS B 130	-19.379	78.220	39.444	1.00	49.29	B	N
ATOM	3013	C LYS B 130	-16.400	81.897	42.347	1.00	29.56	B	C
ATOM	3014	O LYS B 130	-17.538	82.218	42.010	1.00	28.29	B	O
ATOM	3015	N GLN B 131	-15.876	82.185	43.532	1.00	29.31	B	N
ATOM	3016	CA GLN B 131	-16.599	82.911	44.559	1.00	31.88	B	C
ATOM	3017	CB GLN B 131	-15.667	83.162	45.747	1.00	35.97	B	C
ATOM	3018	CG GLN B 131	-16.286	83.913	46.918	1.00	45.23	B	C
ATOM	3019	CD GLN B 131	-17.385	83.128	47.610	1.00	50.61	B	C
ATOM	3020	OE1 GLN B 131	-17.211	81.951	47.942	1.00	53.57	B	O
ATOM	3021	NE2 GLN B 131	-18.524	83.781	47.843	1.00	52.00	B	N
ATOM	3022	C GLN B 131	-17.137	84.239	44.035	1.00	31.40	B	C
ATOM	3023	O GLN B 131	-18.222	84.675	44.427	1.00	29.81	B	O
ATOM	3024	N GLN B 132	-16.382	84.878	43.145	1.00	29.49	B	N
ATOM	3025	CA GLN B 132	-16.788	86.166	42.597	1.00	29.13	B	C
ATOM	3026	CB GLN B 132	-15.558	87.020	42.290	1.00	30.78	B	C

Figure 5BBB

ATOM	3027	CG	GLN B 132	-14.776	87.410	43.535	1.00	32.44	B	C
ATOM	3028	CD	GLN B 132	-15.644	88.114	44.565	1.00	35.76	B	C
ATOM	3029	OE1	GLN B 132	-16.234	89.158	44.286	1.00	35.79	B	O
ATOM	3030	NE2	GLN B 132	-15.725	87.542	45.763	1.00	34.46	B	N
ATOM	3031	C	GLN B 132	-17.682	86.079	41.368	1.00	29.17	B	C
ATOM	3032	O	GLN B 132	-17.994	87.096	40.747	1.00	28.85	B	O
ATOM	3033	N	GLY B 133	-18.075	84.864	41.004	1.00	28.71	B	N
ATOM	3034	CA	GLY B 133	-18.974	84.700	39.879	1.00	28.15	B	C
ATOM	3035	C	GLY B 133	-18.442	84.343	38.509	1.00	27.61	B	C
ATOM	3036	O	GLY B 133	-19.224	84.310	37.561	1.00	26.00	B	O
ATOM	3037	N	TYR B 134	-17.146	84.078	38.371	1.00	26.83	B	N
ATOM	3038	CA	TYR B 134	-16.627	83.721	37.056	1.00	26.16	B	C
ATOM	3039	CB	TYR B 134	-15.135	84.049	36.961	1.00	24.55	B	C
ATOM	3040	CG	TYR B 134	-14.921	85.545	36.938	1.00	22.77	B	C
ATOM	3041	CD1	TYR B 134	-14.840	86.277	38.123	1.00	22.62	B	C
ATOM	3042	CE1	TYR B 134	-14.760	87.670	38.109	1.00	23.49	B	C
ATOM	3043	CD2	TYR B 134	-14.911	86.246	35.730	1.00	24.51	B	C
ATOM	3044	CE2	TYR B 134	-14.834	87.641	35.702	1.00	25.08	B	C
ATOM	3045	CZ	TYR B 134	-14.759	88.346	36.896	1.00	23.66	B	C
ATOM	3046	OH	TYR B 134	-14.689	89.721	36.886	1.00	24.39	B	O
ATOM	3047	C	TYR B 134	-16.927	82.264	36.729	1.00	26.95	B	C
ATOM	3048	O	TYR B 134	-16.774	81.379	37.571	1.00	26.50	B	O
ATOM	3049	N	LEU B 135	-17.362	82.031	35.494	1.00	25.91	B	N
ATOM	3050	CA	LEU B 135	-17.777	80.704	35.049	1.00	28.31	B	C
ATOM	3051	CB	LEU B 135	-19.155	80.822	34.388	1.00	28.49	B	C
ATOM	3052	CG	LEU B 135	-20.131	81.733	35.139	1.00	28.21	B	C
ATOM	3053	CD1	LEU B 135	-21.343	82.031	34.272	1.00	28.13	B	C
ATOM	3054	CD2	LEU B 135	-20.527	81.077	36.455	1.00	29.07	B	C
ATOM	3055	C	LEU B 135	-16.847	79.940	34.113	1.00	27.36	B	C
ATOM	3056	O	LEU B 135	-17.066	78.758	33.855	1.00	27.87	B	O
ATOM	3057	N	ASN B 136	-15.819	80.602	33.596	1.00	28.12	B	N
ATOM	3058	CA	ASN B 136	-14.892	79.944	32.681	1.00	25.99	B	C
ATOM	3059	CB	ASN B 136	-15.053	80.520	31.276	1.00	27.18	B	C
ATOM	3060	CG	ASN B 136	-14.416	79.652	30.214	1.00	27.92	B	C
ATOM	3061	OD1	ASN B 136	-13.572	78.807	30.509	1.00	28.48	B	O
ATOM	3062	ND2	ASN B 136	-14.809	79.866	28.962	1.00	30.11	B	N
ATOM	3063	C	ASN B 136	-13.460	80.159	33.172	1.00	26.03	B	C
ATOM	3064	O	ASN B 136	-12.749	81.040	32.688	1.00	24.61	B	O
ATOM	3065	N	ILE B 137	-13.046	79.342	34.133	1.00	24.40	B	N
ATOM	3066	CA	ILE B 137	-11.715	79.451	34.716	1.00	24.19	B	C
ATOM	3067	CB	ILE B 137	-11.816	79.575	36.254	1.00	25.00	B	C
ATOM	3068	CG2	ILE B 137	-10.430	79.802	36.857	1.00	26.36	B	C
ATOM	3069	CG1	ILE B 137	-12.752	80.735	36.616	1.00	25.12	B	C
ATOM	3070	CD1	ILE B 137	-13.231	80.738	38.056	1.00	25.56	B	C
ATOM	3071	C	ILE B 137	-10.809	78.268	34.378	1.00	24.30	B	C
ATOM	3072	O	ILE B 137	-11.180	77.114	34.574	1.00	24.24	B	O
ATOM	3073	N	SER B 138	-9.620	78.570	33.865	1.00	22.99	B	N
ATOM	3074	CA	SER B 138	-8.640	77.545	33.520	1.00	23.07	B	C
ATOM	3075	CB	SER B 138	-8.357	77.547	32.016	1.00	21.90	B	C
ATOM	3076	OG	SER B 138	-9.532	77.297	31.271	1.00	28.80	B	O
ATOM	3077	C	SER B 138	-7.345	77.845	34.267	1.00	21.12	B	C
ATOM	3078	O	SER B 138	-7.104	78.986	34.675	1.00	18.88	B	O
ATOM	3079	N	HIS B 139	-6.521	76.820	34.463	1.00	20.44	B	N
ATOM	3080	CA	HIS B 139	-5.242	77.010	35.134	1.00	20.66	B	C
ATOM	3081	CB	HIS B 139	-5.343	76.712	36.639	1.00	20.23	B	C
ATOM	3082	CG	HIS B 139	-5.802	75.322	36.964	1.00	21.50	B	C
ATOM	3083	CD2	HIS B 139	-5.241	74.114	36.716	1.00	22.63	B	C
ATOM	3084	ND1	HIS B 139	-6.984	75.067	37.626	1.00	20.86	B	N

Figure 5CCC

ATOM	3085	CE1 HIS B 139	-7.132	73.761	37.770	1.00	23.65	B	C
ATOM	3086	NE2 HIS B 139	-6.089	73.161	37.226	1.00	23.23	B	N
ATOM	3087	C HIS B 139	-4.172	76.148	34.488	1.00	21.34	B	C
ATOM	3088	O HIS B 139	-4.468	75.120	33.874	1.00	21.81	B	O
ATOM	3089	N LEU B 140	-2.922	76.578	34.614	1.00	21.36	B	N
ATOM	3090	CA LEU B 140	-1.815	75.846	34.023	1.00	20.20	B	C
ATOM	3091	CB LEU B 140	-1.644	76.244	32.558	1.00	21.19	B	C
ATOM	3092	CG LEU B 140	-0.502	75.564	31.800	1.00	21.50	B	C
ATOM	3093	CD1 LEU B 140	-0.790	74.074	31.688	1.00	21.95	B	C
ATOM	3094	CD2 LEU B 140	-0.357	76.190	30.410	1.00	21.96	B	C
ATOM	3095	C LEU B 140	-0.511	76.104	34.758	1.00	19.11	B	C
ATOM	3096	O LEU B 140	-0.098	77.248	34.928	1.00	16.59	B	O
ATOM	3097	N ALA B 141	0.135	75.027	35.186	1.00	19.36	B	N
ATOM	3098	CA ALA B 141	1.405	75.133	35.887	1.00	19.87	B	C
ATOM	3099	CB ALA B 141	1.603	73.918	36.791	1.00	21.48	B	C
ATOM	3100	C ALA B 141	2.531	75.215	34.856	1.00	16.62	B	C
ATOM	3101	O ALA B 141	2.912	74.214	34.261	1.00	20.61	B	O
ATOM	3102	N THR B 142	3.049	76.415	34.630	1.00	15.84	B	N
ATOM	3103	CA THR B 142	4.132	76.600	33.676	1.00	14.20	B	C
ATOM	3104	CB THR B 142	3.948	77.913	32.889	1.00	13.97	B	C
ATOM	3105	OG1 THR B 142	3.814	79.003	33.806	1.00	14.25	B	O
ATOM	3106	CG2 THR B 142	2.691	77.840	32.023	1.00	13.62	B	C
ATOM	3107	C THR B 142	5.410	76.652	34.505	1.00	14.37	B	C
ATOM	3108	O THR B 142	6.114	77.653	34.529	1.00	13.97	B	O
ATOM	3109	N SER B 143	5.698	75.544	35.176	1.00	15.59	B	N
ATOM	3110	CA SER B 143	6.844	75.444	36.067	1.00	16.89	B	C
ATOM	3111	CB SER B 143	6.971	74.013	36.591	1.00	19.31	B	C
ATOM	3112	OG SER B 143	8.003	73.931	37.564	1.00	27.09	B	O
ATOM	3113	C SER B 143	8.193	75.902	35.537	1.00	16.21	B	C
ATOM	3114	O SER B 143	8.892	76.666	36.205	1.00	16.07	B	O
ATOM	3115	N LEU B 144	8.557	75.446	34.345	1.00	15.08	B	N
ATOM	3116	CA LEU B 144	9.850	75.783	33.759	1.00	15.48	B	C
ATOM	3117	CB LEU B 144	10.094	74.929	32.520	1.00	15.32	B	C
ATOM	3118	CG LEU B 144	10.215	73.436	32.827	1.00	16.70	B	C
ATOM	3119	CD1 LEU B 144	10.267	72.642	31.536	1.00	19.80	B	C
ATOM	3120	CD2 LEU B 144	11.468	73.190	33.654	1.00	19.07	B	C
ATOM	3121	C LEU B 144	10.037	77.251	33.421	1.00	14.68	B	C
ATOM	3122	O LEU B 144	11.145	77.678	33.098	1.00	14.35	B	O
ATOM	3123	N PHE B 145	8.962	78.028	33.484	1.00	14.12	B	N
ATOM	3124	CA PHE B 145	9.088	79.447	33.199	1.00	15.35	B	C
ATOM	3125	CB PHE B 145	7.719	80.148	33.232	1.00	13.56	B	C
ATOM	3126	CG PHE B 145	6.911	79.992	31.964	1.00	14.58	B	C
ATOM	3127	CD1 PHE B 145	5.657	80.594	31.852	1.00	13.83	B	C
ATOM	3128	CD2 PHE B 145	7.393	79.252	30.888	1.00	16.08	B	C
ATOM	3129	CE1 PHE B 145	4.899	80.461	30.688	1.00	14.15	B	C
ATOM	3130	CE2 PHE B 145	6.646	79.111	29.720	1.00	15.95	B	C
ATOM	3131	CZ PHE B 145	5.395	79.717	29.620	1.00	14.39	B	C
ATOM	3132	C PHE B 145	10.011	80.084	34.233	1.00	14.15	B	C
ATOM	3133	O PHE B 145	10.821	80.942	33.896	1.00	13.84	B	O
ATOM	3134	N VAL B 146	9.901	79.648	35.488	1.00	14.43	B	N
ATOM	3135	CA VAL B 146	10.721	80.215	36.558	1.00	15.36	B	C
ATOM	3136	CB VAL B 146	10.353	79.617	37.949	1.00	17.29	B	C
ATOM	3137	CG1 VAL B 146	11.367	80.065	38.995	1.00	16.50	B	C
ATOM	3138	CG2 VAL B 146	8.959	80.079	38.369	1.00	14.60	B	C
ATOM	3139	C VAL B 146	12.229	80.086	36.329	1.00	14.39	B	C
ATOM	3140	O VAL B 146	12.935	81.092	36.326	1.00	14.20	B	O
ATOM	3141	N PRO B 147	12.747	78.856	36.144	1.00	14.14	B	N
ATOM	3142	CD PRO B 147	12.141	77.519	36.269	1.00	13.43	B	C

Figure 5DDD

ATOM	3143	CA	PRO B 147	14.195	78.754	35.921	1.00	14.59	B	C
ATOM	3144	CB	PRO B 147	14.457	77.242	35.995	1.00	13.53	B	C
ATOM	3145	CG	PRO B 147	13.151	76.642	35.573	1.00	14.07	B	C
ATOM	3146	C	PRO B 147	14.653	79.377	34.597	1.00	13.40	B	C
ATOM	3147	O	PRO B 147	15.775	79.877	34.500	1.00	13.19	B	O
ATOM	3148	N	LEU B 148	13.796	79.355	33.577	1.00	11.38	B	N
ATOM	3149	CA	LEU B 148	14.179	79.960	32.303	1.00	12.63	B	C
ATOM	3150	CB	LEU B 148	13.100	79.751	31.232	1.00	14.70	B	C
ATOM	3151	CG	LEU B 148	13.404	78.655	30.202	1.00	12.09	B	C
ATOM	3152	CD1	LEU B 148	13.446	77.315	30.903	1.00	14.46	B	C
ATOM	3153	CD2	LEU B 148	12.341	78.649	29.106	1.00	18.20	B	C
ATOM	3154	C	LEU B 148	14.395	81.448	32.508	1.00	12.91	B	C
ATOM	3155	O	LEU B 148	15.372	82.018	32.031	1.00	12.96	B	O
ATOM	3156	N	ILE B 149	13.471	82.070	33.231	1.00	13.00	B	N
ATOM	3157	CA	ILE B 149	13.545	83.500	33.499	1.00	12.87	B	C
ATOM	3158	CB	ILE B 149	12.211	83.989	34.130	1.00	13.86	B	C
ATOM	3159	CG2	ILE B 149	12.352	85.419	34.647	1.00	12.28	B	C
ATOM	3160	CG1	ILE B 149	11.099	83.891	33.071	1.00	14.05	B	C
ATOM	3161	CD1	ILE B 149	9.694	84.067	33.608	1.00	15.21	B	C
ATOM	3162	C	ILE B 149	14.742	83.842	34.386	1.00	12.66	B	C
ATOM	3163	O	ILE B 149	15.403	84.852	34.172	1.00	11.51	B	O
ATOM	3164	N	GLU B 150	15.041	82.995	35.366	1.00	12.92	B	N
ATOM	3165	CA	GLU B 150	16.180	83.266	36.235	1.00	13.66	B	C
ATOM	3166	CB	GLU B 150	16.182	82.313	37.441	1.00	18.92	B	C
ATOM	3167	CG	GLU B 150	14.884	82.371	38.242	1.00	23.46	B	C
ATOM	3168	CD	GLU B 150	15.024	81.875	39.673	1.00	28.25	B	C
ATOM	3169	OE1	GLU B 150	15.728	80.863	39.887	1.00	30.76	B	O
ATOM	3170	OE2	GLU B 150	14.414	82.491	40.581	1.00	24.21	B	O
ATOM	3171	C	GLU B 150	17.491	83.163	35.462	1.00	13.99	B	C
ATOM	3172	O	GLU B 150	18.484	83.776	35.844	1.00	14.58	B	O
ATOM	3173	N	GLU B 151	17.500	82.403	34.370	1.00	13.36	B	N
ATOM	3174	CA	GLU B 151	18.712	82.277	33.571	1.00	16.12	B	C
ATOM	3175	CB	GLU B 151	18.863	80.861	33.006	1.00	18.99	B	C
ATOM	3176	CG	GLU B 151	20.276	80.598	32.500	1.00	25.66	B	C
ATOM	3177	CD	GLU B 151	20.615	79.128	32.403	1.00	27.80	B	C
ATOM	3178	OE1	GLU B 151	20.307	78.389	33.362	1.00	33.36	B	O
ATOM	3179	OE2	GLU B 151	21.204	78.716	31.378	1.00	24.62	B	O
ATOM	3180	C	GLU B 151	18.695	83.293	32.436	1.00	15.49	B	C
ATOM	3181	O	GLU B 151	19.515	83.243	31.522	1.00	16.76	B	O
ATOM	3182	N	SER B 152	17.746	84.218	32.514	1.00	15.83	B	N
ATOM	3183	CA	SER B 152	17.591	85.277	31.523	1.00	16.90	B	C
ATOM	3184	CB	SER B 152	18.843	86.159	31.486	1.00	16.89	B	C
ATOM	3185	OG	SER B 152	18.547	87.404	30.872	1.00	19.93	B	O
ATOM	3186	C	SER B 152	17.274	84.786	30.108	1.00	15.72	B	C
ATOM	3187	O	SER B 152	17.776	85.339	29.128	1.00	16.57	B	O
ATOM	3188	N	ILE B 153	16.452	83.746	30.003	1.00	16.59	B	N
ATOM	3189	CA	ILE B 153	16.048	83.223	28.701	1.00	16.23	B	C
ATOM	3190	CB	ILE B 153	15.840	81.688	28.747	1.00	17.80	B	C
ATOM	3191	CG2	ILE B 153	15.479	81.164	27.366	1.00	16.97	B	C
ATOM	3192	CG1	ILE B 153	17.118	81.008	29.247	1.00	18.17	B	C
ATOM	3193	CD1	ILE B 153	18.328	81.264	28.379	1.00	20.45	B	C
ATOM	3194	C	ILE B 153	14.716	83.924	28.465	1.00	17.00	B	C
ATOM	3195	O	ILE B 153	13.647	83.337	28.649	1.00	16.86	B	O
ATOM	3196	N	LEU B 154	14.802	85.192	28.074	1.00	16.13	B	N
ATOM	3197	CA	LEU B 154	13.629	86.036	27.861	1.00	17.93	B	C
ATOM	3198	CB	LEU B 154	13.891	87.412	28.475	1.00	15.30	B	C
ATOM	3199	CG	LEU B 154	14.390	87.335	29.923	1.00	14.99	B	C
ATOM	3200	CD1	LEU B 154	14.685	88.728	30.459	1.00	17.09	B	C

Figure 5EEE

ATOM	3201	CD2 LEU B 154	13.348	86.640	30.776	1.00	18.19	B	C
ATOM	3202	C LEU B 154	13.188	86.204	26.413	1.00	19.02	B	C
ATOM	3203	O LEU B 154	12.258	86.956	26.125	1.00	18.98	B	O
ATOM	3204	N GLU B 155	13.857	85.506	25.506	1.00	19.46	B	N
ATOM	3205	CA GLU B 155	13.520	85.579	24.093	1.00	20.61	B	C
ATOM	3206	CB GLU B 155	14.055	86.877	23.481	1.00	23.20	B	C
ATOM	3207	CG GLU B 155	15.563	86.894	23.285	1.00	31.50	B	C
ATOM	3208	CD GLU B 155	16.077	88.235	22.778	1.00	39.23	B	C
ATOM	3209	OE1 GLU B 155	15.483	88.786	21.824	1.00	42.91	B	O
ATOM	3210	OE2 GLU B 155	17.084	88.734	23.328	1.00	43.36	B	O
ATOM	3211	C GLU B 155	14.177	84.391	23.421	1.00	19.99	B	C
ATOM	3212	O GLU B 155	14.864	83.610	24.077	1.00	21.64	B	O
ATOM	3213	N GLY B 156	13.946	84.242	22.121	1.00	20.12	B	N
ATOM	3214	CA GLY B 156	14.563	83.152	21.396	1.00	19.17	B	C
ATOM	3215	C GLY B 156	13.844	81.820	21.366	1.00	20.79	B	C
ATOM	3216	O GLY B 156	12.804	81.618	21.995	1.00	18.13	B	O
ATOM	3217	N GLU B 157	14.451	80.898	20.626	1.00	22.19	B	N
ATOM	3218	CA GLU B 157	13.946	79.548	20.415	1.00	21.56	B	C
ATOM	3219	CB GLU B 157	14.952	78.782	19.553	1.00	25.02	B	C
ATOM	3220	CG GLU B 157	14.524	77.377	19.184	1.00	35.87	B	C
ATOM	3221	CD GLU B 157	15.499	76.703	18.231	1.00	41.09	B	C
ATOM	3222	OE1 GLU B 157	16.701	76.596	18.573	1.00	42.82	B	O
ATOM	3223	OE2 GLU B 157	15.058	76.275	17.141	1.00	42.70	B	O
ATOM	3224	C GLU B 157	13.613	78.732	21.666	1.00	20.08	B	C
ATOM	3225	O GLU B 157	12.588	78.044	21.702	1.00	18.27	B	O
ATOM	3226	N LEU B 158	14.471	78.796	22.683	1.00	17.09	B	N
ATOM	3227	CA LEU B 158	14.238	78.033	23.904	1.00	15.87	B	C
ATOM	3228	CB LEU B 158	15.447	78.132	24.842	1.00	18.05	B	C
ATOM	3229	CG LEU B 158	15.334	77.315	26.136	1.00	17.16	B	C
ATOM	3230	CD1 LEU B 158	14.977	75.872	25.807	1.00	15.66	B	C
ATOM	3231	CD2 LEU B 158	16.651	77.382	26.905	1.00	17.03	B	C
ATOM	3232	C LEU B 158	12.973	78.488	24.630	1.00	16.52	B	C
ATOM	3233	O LEU B 158	12.189	77.662	25.108	1.00	14.49	B	O
ATOM	3234	N LEU B 159	12.775	79.799	24.727	1.00	14.92	B	N
ATOM	3235	CA LEU B 159	11.580	80.306	25.383	1.00	14.51	B	C
ATOM	3236	CB LEU B 159	11.660	81.823	25.578	1.00	15.13	B	C
ATOM	3237	CG LEU B 159	10.374	82.456	26.133	1.00	16.38	B	C
ATOM	3238	CD1 LEU B 159	9.996	81.799	27.450	1.00	14.88	B	C
ATOM	3239	CD2 LEU B 159	10.574	83.955	26.326	1.00	15.09	B	C
ATOM	3240	C LEU B 159	10.367	79.951	24.519	1.00	14.59	B	C
ATOM	3241	O LEU B 159	9.350	79.492	25.028	1.00	13.56	B	O
ATOM	3242	N GLU B 160	10.483	80.150	23.209	1.00	14.14	B	N
ATOM	3243	CA GLU B 160	9.382	79.820	22.304	1.00	16.06	B	C
ATOM	3244	CB GLU B 160	9.779	80.107	20.853	1.00	18.15	B	C
ATOM	3245	CG GLU B 160	8.709	79.743	19.815	1.00	23.84	B	C
ATOM	3246	CD GLU B 160	7.357	80.384	20.107	1.00	27.35	B	C
ATOM	3247	OE1 GLU B 160	7.330	81.496	20.683	1.00	24.13	B	O
ATOM	3248	OE2 GLU B 160	6.321	79.783	19.748	1.00	30.37	B	O
ATOM	3249	C GLU B 160	8.987	78.348	22.438	1.00	15.10	B	C
ATOM	3250	O GLU B 160	7.811	78.015	22.566	1.00	16.67	B	O
ATOM	3251	N THR B 161	9.979	77.469	22.416	1.00	15.36	B	N
ATOM	3252	CA THR B 161	9.720	76.037	22.518	1.00	16.10	B	C
ATOM	3253	CB THR B 161	11.024	75.243	22.343	1.00	17.81	B	C
ATOM	3254	OG1 THR B 161	11.607	75.567	21.072	1.00	19.62	B	O
ATOM	3255	CG2 THR B 161	10.756	73.748	22.407	1.00	18.12	B	C
ATOM	3256	C THR B 161	9.066	75.676	23.851	1.00	14.89	B	C
ATOM	3257	O THR B 161	8.172	74.821	23.907	1.00	13.07	B	O
ATOM	3258	N CYS B 162	9.500	76.342	24.918	1.00	12.65	B	N

Figure 5FFF

ATOM	3259	CA	CYS B 162	8.958	76.087	26.248	1.00	15.38	B	C
ATOM	3260	CB	CYS B 162	9.800	76.796	27.310	1.00	14.79	B	C
ATOM	3261	SG	CYS B 162	9.400	76.328	29.021	1.00	16.89	B	S
ATOM	3262	C	CYS B 162	7.505	76.557	26.341	1.00	15.60	B	C
ATOM	3263	O	CYS B 162	6.651	75.849	26.877	1.00	15.21	B	O
ATOM	3264	N	MET B 163	7.226	77.756	25.831	1.00	15.17	B	N
ATOM	3265	CA	MET B 163	5.863	78.271	25.860	1.00	15.78	B	C
ATOM	3266	CB	MET B 163	5.792	79.695	25.294	1.00	15.75	B	C
ATOM	3267	CG	MET B 163	6.424	80.767	26.162	1.00	16.77	B	C
ATOM	3268	SD	MET B 163	5.978	82.432	25.603	1.00	16.61	B	S
ATOM	3269	CE	MET B 163	6.937	82.509	24.114	1.00	14.38	B	C
ATOM	3270	C	MET B 163	4.962	77.360	25.033	1.00	14.99	B	C
ATOM	3271	O	MET B 163	3.819	77.093	25.410	1.00	15.77	B	O
ATOM	3272	N	HIS B 164	5.484	76.879	23.909	1.00	15.34	B	N
ATOM	3273	CA	HIS B 164	4.718	76.002	23.033	1.00	19.25	B	C
ATOM	3274	CB	HIS B 164	5.504	75.724	21.751	1.00	20.62	B	C
ATOM	3275	CG	HIS B 164	4.693	75.055	20.688	1.00	28.25	B	C
ATOM	3276	CD2	HIS B 164	4.779	73.817	20.146	1.00	28.01	B	C
ATOM	3277	ND1	HIS B 164	3.608	75.661	20.090	1.00	29.20	B	N
ATOM	3278	CE1	HIS B 164	3.060	74.824	19.227	1.00	29.23	B	C
ATOM	3279	NE2	HIS B 164	3.750	73.698	19.243	1.00	29.55	B	N
ATOM	3280	C	HIS B 164	4.412	74.690	23.760	1.00	19.47	B	C
ATOM	3281	O	HIS B 164	3.293	74.169	23.704	1.00	17.49	B	O
ATOM	3282	N	TYR B 165	5.419	74.169	24.449	1.00	17.68	B	N
ATOM	3283	CA	TYR B 165	5.277	72.937	25.210	1.00	16.69	B	C
ATOM	3284	CB	TYR B 165	6.578	72.655	25.969	1.00	15.68	B	C
ATOM	3285	CG	TYR B 165	6.457	71.544	26.976	1.00	17.57	B	C
ATOM	3286	CD1	TYR B 165	6.384	70.211	26.569	1.00	16.95	B	C
ATOM	3287	CE1	TYR B 165	6.216	69.191	27.498	1.00	20.45	B	C
ATOM	3288	CD2	TYR B 165	6.362	71.829	28.336	1.00	15.75	B	C
ATOM	3289	CE2	TYR B 165	6.193	70.818	29.273	1.00	17.81	B	C
ATOM	3290	CZ	TYR B 165	6.119	69.501	28.847	1.00	18.80	B	C
ATOM	3291	OH	TYR B 165	5.941	68.500	29.773	1.00	19.07	B	O
ATOM	3292	C	TYR B 165	4.101	73.027	26.193	1.00	16.83	B	C
ATOM	3293	O	TYR B 165	3.303	72.094	26.310	1.00	19.76	B	O
ATOM	3294	N	TYR B 166	3.999	74.151	26.895	1.00	16.40	B	N
ATOM	3295	CA	TYR B 166	2.931	74.369	27.864	1.00	16.70	B	C
ATOM	3296	CB	TYR B 166	3.362	75.435	28.888	1.00	13.68	B	C
ATOM	3297	CG	TYR B 166	4.354	74.961	29.930	1.00	15.63	B	C
ATOM	3298	CD1	TYR B 166	5.545	75.650	30.150	1.00	13.48	B	C
ATOM	3299	CE1	TYR B 166	6.458	75.218	31.113	1.00	17.41	B	C
ATOM	3300	CD2	TYR B 166	4.097	73.825	30.702	1.00	16.97	B	C
ATOM	3301	CE2	TYR B 166	5.001	73.387	31.668	1.00	14.41	B	C
ATOM	3302	CZ	TYR B 166	6.176	74.084	31.868	1.00	15.99	B	C
ATOM	3303	OH	TYR B 166	7.058	73.648	32.827	1.00	15.83	B	O
ATOM	3304	C	TYR B 166	1.576	74.793	27.278	1.00	17.53	B	C
ATOM	3305	O	TYR B 166	0.529	74.344	27.746	1.00	18.77	B	O
ATOM	3306	N	PHE B 167	1.599	75.651	26.260	1.00	18.80	B	N
ATOM	3307	CA	PHE B 167	0.367	76.198	25.668	1.00	19.74	B	C
ATOM	3308	CB	PHE B 167	0.660	77.589	25.115	1.00	18.42	B	C
ATOM	3309	CG	PHE B 167	1.092	78.573	26.163	1.00	17.20	B	C
ATOM	3310	CD1	PHE B 167	1.928	79.627	25.824	1.00	16.80	B	C
ATOM	3311	CD2	PHE B 167	0.635	78.472	27.482	1.00	16.87	B	C
ATOM	3312	CE1	PHE B 167	2.306	80.572	26.770	1.00	17.05	B	C
ATOM	3313	CE2	PHE B 167	1.010	79.419	28.439	1.00	17.71	B	C
ATOM	3314	CZ	PHE B 167	1.851	80.472	28.075	1.00	17.51	B	C
ATOM	3315	C	PHE B 167	-0.367	75.383	24.618	1.00	21.10	B	C
ATOM	3316	O	PHE B 167	-1.597	75.430	24.535	1.00	19.22	B	O

Figure 5GGG

ATOM	3317	N	THR B 168	0.403	74.657	23.812	1.00	23.27	B	N
ATOM	3318	CA	THR B 168	-0.165	73.805	22.765	1.00	26.77	B	C
ATOM	3319	CB	THR B 168	0.865	72.832	22.187	1.00	27.57	B	C
ATOM	3320	OG1	THR B 168	1.911	73.535	21.517	1.00	32.03	B	O
ATOM	3321	CG2	THR B 168	0.186	71.880	21.180	1.00	32.54	B	C
ATOM	3322	C	THR B 168	-1.363	72.944	23.205	1.00	26.77	B	C
ATOM	3323	O	THR B 168	-2.395	72.938	22.572	1.00	28.26	B	O
ATOM	3324	N	PRO B 169	-1.239	72.197	24.326	1.00	26.46	B	N
ATOM	3325	CD	PRO B 169	-0.050	72.083	25.152	1.00	26.67	B	C
ATOM	3326	CA	PRO B 169	-2.291	71.326	24.883	1.00	25.55	B	C
ATOM	3327	CB	PRO B 169	-1.610	70.668	26.066	1.00	26.50	B	C
ATOM	3328	CG	PRO B 169	-0.169	70.666	25.699	1.00	26.43	B	C
ATOM	3329	C	PRO B 169	-3.593	72.077	25.297	1.00	24.82	B	C
ATOM	3330	O	PRO B 169	-4.610	71.418	25.576	1.00	24.34	B	O
ATOM	3331	N	LEU B 170	-3.536	73.405	25.391	1.00	22.80	B	N
ATOM	3332	CA	LEU B 170	-4.729	74.167	25.761	1.00	25.50	B	C
ATOM	3333	CB	LEU B 170	-4.385	75.632	25.964	1.00	23.84	B	C
ATOM	3334	CG	LEU B 170	-3.514	75.982	27.186	1.00	25.53	B	C
ATOM	3335	CD1	LEU B 170	-3.138	77.463	27.146	1.00	26.01	B	C
ATOM	3336	CD2	LEU B 170	-4.242	75.652	28.503	1.00	26.09	B	C
ATOM	3337	C	LEU B 170	-5.772	74.057	24.644	1.00	25.77	B	C
ATOM	3338	O	LEU B 170	-5.436	74.103	23.453	1.00	26.97	B	O
ATOM	3339	N	GLU B 171	-7.033	73.952	25.037	1.00	27.92	B	N
ATOM	3340	CA	GLU B 171	-8.117	73.860	24.078	1.00	30.46	B	C
ATOM	3341	CB	GLU B 171	-9.035	72.693	24.435	1.00	34.23	B	C
ATOM	3342	CG	GLU B 171	-8.408	71.310	24.268	1.00	36.53	B	C
ATOM	3343	CD	GLU B 171	-7.963	71.029	22.844	1.00	38.06	B	C
ATOM	3344	OE1	GLU B 171	-8.773	71.218	21.911	1.00	38.60	B	O
ATOM	3345	OE2	GLU B 171	-6.800	70.614	22.659	1.00	38.27	B	O
ATOM	3346	C	GLU B 171	-8.903	75.155	24.104	1.00	30.56	B	C
ATOM	3347	O	GLU B 171	-9.477	75.560	23.093	1.00	33.13	B	O
ATOM	3348	N	ILE B 172	-8.922	75.801	25.265	1.00	27.64	B	N
ATOM	3349	CA	ILE B 172	-9.627	77.060	25.428	1.00	26.46	B	C
ATOM	3350	CB	ILE B 172	-10.239	77.179	26.838	1.00	26.68	B	C
ATOM	3351	CG2	ILE B 172	-10.916	78.534	26.994	1.00	26.23	B	C
ATOM	3352	CG1	ILE B 172	-11.246	76.050	27.071	1.00	27.08	B	C
ATOM	3353	CD1	ILE B 172	-11.899	76.085	28.443	1.00	27.76	B	C
ATOM	3354	C	ILE B 172	-8.670	78.225	25.218	1.00	26.74	B	C
ATOM	3355	O	ILE B 172	-7.604	78.284	25.833	1.00	24.89	B	O
ATOM	3356	N	LEU B 173	-9.055	79.148	24.343	1.00	25.65	B	N
ATOM	3357	CA	LEU B 173	-8.245	80.328	24.061	1.00	25.77	B	C
ATOM	3358	CB	LEU B 173	-8.564	80.853	22.659	1.00	28.20	B	C
ATOM	3359	CG	LEU B 173	-7.682	81.962	22.082	1.00	29.17	B	C
ATOM	3360	CD1	LEU B 173	-6.227	81.521	22.081	1.00	31.35	B	C
ATOM	3361	CD2	LEU B 173	-8.144	82.281	20.661	1.00	29.98	B	C
ATOM	3362	C	LEU B 173	-8.585	81.387	25.111	1.00	24.69	B	C
ATOM	3363	O	LEU B 173	-9.720	81.852	25.188	1.00	26.80	B	O
ATOM	3364	N	PRO B 174	-7.606	81.780	25.939	1.00	21.86	B	N
ATOM	3365	CD	PRO B 174	-6.227	81.269	26.032	1.00	20.12	B	C
ATOM	3366	CA	PRO B 174	-7.857	82.786	26.973	1.00	21.00	B	C
ATOM	3367	CB	PRO B 174	-6.629	82.663	27.873	1.00	20.86	B	C
ATOM	3368	CG	PRO B 174	-5.553	82.313	26.900	1.00	20.88	B	C
ATOM	3369	C	PRO B 174	-8.058	84.215	26.481	1.00	21.07	B	C
ATOM	3370	O	PRO B 174	-7.442	84.652	25.510	1.00	20.92	B	O
ATOM	3371	N	GLU B 175	-8.941	84.932	27.163	1.00	20.88	B	N
ATOM	3372	CA	GLU B 175	-9.210	86.325	26.849	1.00	20.49	B	C
ATOM	3373	CB	GLU B 175	-10.714	86.599	26.886	1.00	22.18	B	C
ATOM	3374	CG	GLU B 175	-11.414	86.262	25.584	1.00	24.72	B	C

Figure 5HHH

ATOM	3375	CD	GLU B 175	-12.914	86.445	25.662	1.00	27.87	B	C
ATOM	3376	OE1	GLU B 175	-13.362	87.355	26.386	1.00	29.73	B	O
ATOM	3377	OE2	GLU B 175	-13.643	85.686	24.989	1.00	30.38	B	O
ATOM	3378	C	GLU B 175	-8.492	87.110	27.932	1.00	19.76	B	C
ATOM	3379	O	GLU B 175	-8.151	88.278	27.760	1.00	19.06	B	O
ATOM	3380	N	VAL B 176	-8.249	86.429	29.047	1.00	18.72	B	N
ATOM	3381	CA	VAL B 176	-7.561	87.013	30.187	1.00	18.26	B	C
ATOM	3382	CB	VAL B 176	-8.542	87.366	31.329	1.00	19.04	B	C
ATOM	3383	CG1	VAL B 176	-7.792	88.005	32.473	1.00	17.96	B	C
ATOM	3384	CG2	VAL B 176	-9.627	88.307	30.819	1.00	19.77	B	C
ATOM	3385	C	VAL B 176	-6.566	85.994	30.728	1.00	18.77	B	C
ATOM	3386	O	VAL B 176	-6.909	84.830	30.936	1.00	18.44	B	O
ATOM	3387	N	ILE B 177	-5.337	86.438	30.955	1.00	15.78	B	N
ATOM	3388	CA	ILE B 177	-4.302	85.564	31.485	1.00	15.67	B	C
ATOM	3389	CB	ILE B 177	-3.149	85.366	30.479	1.00	16.57	B	C
ATOM	3390	CG2	ILE B 177	-2.076	84.471	31.092	1.00	15.73	B	C
ATOM	3391	CG1	ILE B 177	-3.679	84.754	29.184	1.00	17.67	B	C
ATOM	3392	CD1	ILE B 177	-2.639	84.634	28.094	1.00	16.12	B	C
ATOM	3393	C	ILE B 177	-3.730	86.191	32.746	1.00	15.83	B	C
ATOM	3394	O	ILE B 177	-3.319	87.356	32.742	1.00	15.47	B	O
ATOM	3395	N	ILE B 178	-3.721	85.427	33.832	1.00	15.84	B	N
ATOM	3396	CA	ILE B 178	-3.178	85.932	35.080	1.00	15.63	B	C
ATOM	3397	CB	ILE B 178	-3.958	85.402	36.314	1.00	16.93	B	C
ATOM	3398	CG2	ILE B 178	-3.370	85.986	37.589	1.00	15.87	B	C
ATOM	3399	CG1	ILE B 178	-5.432	85.807	36.228	1.00	18.02	B	C
ATOM	3400	CD1	ILE B 178	-6.267	85.341	37.422	1.00	17.46	B	C
ATOM	3401	C	ILE B 178	-1.724	85.486	35.190	1.00	14.02	B	C
ATOM	3402	O	ILE B 178	-1.416	84.300	35.089	1.00	13.65	B	O
ATOM	3403	N	LEU B 179	-0.833	86.449	35.376	1.00	14.12	B	N
ATOM	3404	CA	LEU B 179	0.589	86.150	35.525	1.00	14.34	B	C
ATOM	3405	CB	LEU B 179	1.428	87.340	35.053	1.00	15.34	B	C
ATOM	3406	CG	LEU B 179	1.169	87.783	33.610	1.00	16.04	B	C
ATOM	3407	CD1	LEU B 179	1.942	89.073	33.332	1.00	18.24	B	C
ATOM	3408	CD2	LEU B 179	1.574	86.680	32.636	1.00	16.26	B	C
ATOM	3409	C	LEU B 179	0.783	85.915	37.021	1.00	14.01	B	C
ATOM	3410	O	LEU B 179	1.391	86.727	37.719	1.00	13.42	B	O
ATOM	3411	N	GLY B 180	0.252	84.790	37.493	1.00	13.50	B	N
ATOM	3412	CA	GLY B 180	0.310	84.448	38.906	1.00	13.79	B	C
ATOM	3413	C	GLY B 180	1.632	83.927	39.417	1.00	12.30	B	C
ATOM	3414	O	GLY B 180	1.681	82.902	40.093	1.00	14.02	B	O
ATOM	3415	N	CYS B 181	2.702	84.647	39.093	1.00	13.12	B	N
ATOM	3416	CA	CYS B 181	4.048	84.295	39.518	1.00	11.26	B	C
ATOM	3417	CB	CYS B 181	4.591	83.150	38.667	1.00	11.52	B	C
ATOM	3418	SG	CYS B 181	6.279	82.671	39.091	1.00	14.29	B	S
ATOM	3419	C	CYS B 181	4.927	85.532	39.348	1.00	11.67	B	C
ATOM	3420	O	CYS B 181	4.837	86.226	38.336	1.00	10.15	B	O
ATOM	3421	N	THR B 182	5.770	85.796	40.342	1.00	10.95	B	N
ATOM	3422	CA	THR B 182	6.671	86.950	40.329	1.00	11.68	B	C
ATOM	3423	CB	THR B 182	7.654	86.902	41.517	1.00	12.29	B	C
ATOM	3424	OG1	THR B 182	8.306	85.623	41.546	1.00	8.82	B	O
ATOM	3425	CG2	THR B 182	6.918	87.133	42.832	1.00	13.05	B	C
ATOM	3426	C	THR B 182	7.511	87.085	39.068	1.00	12.00	B	C
ATOM	3427	O	THR B 182	7.775	88.190	38.604	1.00	11.14	B	O
ATOM	3428	N	HIS B 183	7.927	85.953	38.516	1.00	11.51	B	N
ATOM	3429	CA	HIS B 183	8.782	85.934	37.333	1.00	12.53	B	C
ATOM	3430	CB	HIS B 183	9.490	84.577	37.250	1.00	12.11	B	C
ATOM	3431	CG	HIS B 183	10.413	84.301	38.396	1.00	12.62	B	C
ATOM	3432	CD2	HIS B 183	11.662	83.774	38.425	1.00	14.37	B	C

Figure 5III

ATOM	3433	ND1 HIS B 183	10.074	84.558	39.708	1.00	12.87	B	N
ATOM	3434	CE1 HIS B 183	11.076	84.206	40.495	1.00	11.92	B	C
ATOM	3435	NE2 HIS B 183	12.051	83.728	39.741	1.00	12.64	B	N
ATOM	3436	C HIS B 183	8.113	86.202	35.990	1.00	13.70	B	C
ATOM	3437	O HIS B 183	8.735	86.757	35.082	1.00	14.63	B	O
ATOM	3438	N PHE B 184	6.846	85.822	35.866	1.00	14.67	B	N
ATOM	3439	CA PHE B 184	6.134	85.945	34.595	1.00	13.80	B	C
ATOM	3440	CB PHE B 184	4.751	85.298	34.731	1.00	14.23	B	C
ATOM	3441	CG PHE B 184	4.809	83.829	35.102	1.00	13.65	B	C
ATOM	3442	CD1 PHE B 184	3.646	83.084	35.240	1.00	16.74	B	C
ATOM	3443	CD2 PHE B 184	6.035	83.207	35.355	1.00	14.92	B	C
ATOM	3444	CE1 PHE B 184	3.698	81.743	35.631	1.00	13.35	B	C
ATOM	3445	CE2 PHE B 184	6.097	81.866	35.746	1.00	14.40	B	C
ATOM	3446	CZ PHE B 184	4.923	81.136	35.884	1.00	13.35	B	C
ATOM	3447	C PHE B 184	6.049	87.314	33.921	1.00	13.82	B	C
ATOM	3448	O PHE B 184	5.991	87.391	32.691	1.00	13.30	B	O
ATOM	3449	N PRO B 185	6.032	88.409	34.697	1.00	13.55	B	N
ATOM	3450	CD PRO B 185	5.786	88.577	36.143	1.00	14.61	B	C
ATOM	3451	CA PRO B 185	5.966	89.701	34.008	1.00	14.00	B	C
ATOM	3452	CB PRO B 185	5.964	90.702	35.158	1.00	15.55	B	C
ATOM	3453	CG PRO B 185	5.186	89.971	36.210	1.00	16.68	B	C
ATOM	3454	C PRO B 185	7.158	89.907	33.063	1.00	14.41	B	C
ATOM	3455	O PRO B 185	7.057	90.640	32.076	1.00	14.66	B	O
ATOM	3456	N LEU B 186	8.285	89.257	33.355	1.00	13.60	B	N
ATOM	3457	CA LEU B 186	9.462	89.410	32.503	1.00	14.78	B	C
ATOM	3458	CB LEU B 186	10.707	88.844	33.185	1.00	16.45	B	C
ATOM	3459	CG LEU B 186	11.268	89.716	34.312	1.00	17.76	B	C
ATOM	3460	CD1 LEU B 186	12.601	89.149	34.788	1.00	18.57	B	C
ATOM	3461	CD2 LEU B 186	11.454	91.145	33.800	1.00	19.96	B	C
ATOM	3462	C LEU B 186	9.299	88.796	31.115	1.00	14.26	B	C
ATOM	3463	O LEU B 186	10.105	89.060	30.219	1.00	13.67	B	O
ATOM	3464	N ILE B 187	8.271	87.973	30.933	1.00	13.72	B	N
ATOM	3465	CA ILE B 187	8.007	87.391	29.616	1.00	14.52	B	C
ATOM	3466	CB ILE B 187	8.252	85.852	29.567	1.00	16.13	B	C
ATOM	3467	CG2 ILE B 187	9.734	85.563	29.730	1.00	15.11	B	C
ATOM	3468	CG1 ILE B 187	7.418	85.134	30.630	1.00	14.95	B	C
ATOM	3469	CD1 ILE B 187	7.386	83.616	30.452	1.00	18.91	B	C
ATOM	3470	C ILE B 187	6.559	87.681	29.216	1.00	15.97	B	C
ATOM	3471	O ILE B 187	5.970	86.973	28.399	1.00	14.41	B	O
ATOM	3472	N ALA B 188	6.003	88.742	29.790	1.00	14.30	B	N
ATOM	3473	CA ALA B 188	4.623	89.138	29.511	1.00	16.72	B	C
ATOM	3474	CB ALA B 188	4.261	90.381	30.318	1.00	17.73	B	C
ATOM	3475	C ALA B 188	4.386	89.386	28.021	1.00	17.75	B	C
ATOM	3476	O ALA B 188	3.473	88.806	27.437	1.00	15.55	B	O
ATOM	3477	N GLN B 189	5.208	90.232	27.404	1.00	18.64	B	N
ATOM	3478	CA GLN B 189	5.045	90.521	25.979	1.00	20.60	B	C
ATOM	3479	CB GLN B 189	5.977	91.668	25.553	1.00	24.25	B	C
ATOM	3480	CG GLN B 189	7.448	91.297	25.369	1.00	34.75	B	C
ATOM	3481	CD GLN B 189	8.385	92.508	25.450	1.00	39.99	B	C
ATOM	3482	OE1 GLN B 189	7.963	93.653	25.263	1.00	43.74	B	O
ATOM	3483	NE2 GLN B 189	9.663	92.254	25.720	1.00	40.19	B	N
ATOM	3484	C GLN B 189	5.279	89.273	25.111	1.00	17.97	B	C
ATOM	3485	O GLN B 189	4.729	89.163	24.015	1.00	14.32	B	O
ATOM	3486	N LYS B 190	6.078	88.329	25.606	1.00	17.40	B	N
ATOM	3487	CA LYS B 190	6.341	87.097	24.859	1.00	16.80	B	C
ATOM	3488	CB LYS B 190	7.567	86.374	25.421	1.00	18.22	B	C
ATOM	3489	CG LYS B 190	8.878	87.117	25.218	1.00	21.88	B	C
ATOM	3490	CD LYS B 190	9.211	87.269	23.740	1.00	25.45	B	C

Figure 5JJ

ATOM	3491	CE	LYS	B	190	10.416	88.179	23.543	1.00	29.36	B	C
ATOM	3492	NZ	LYS	B	190	10.790	88.298	22.110	1.00	29.28	B	N
ATOM	3493	C	LYS	B	190	5.123	86.176	24.920	1.00	16.76	B	C
ATOM	3494	O	LYS	B	190	4.775	85.521	23.934	1.00	15.72	B	O
ATOM	3495	N	ILE	B	191	4.484	86.118	26.085	1.00	17.36	B	N
ATOM	3496	CA	ILE	B	191	3.293	85.293	26.250	1.00	16.65	B	C
ATOM	3497	CB	ILE	B	191	2.835	85.283	27.722	1.00	16.29	B	C
ATOM	3498	CG2	ILE	B	191	1.429	84.706	27.837	1.00	15.90	B	C
ATOM	3499	CG1	ILE	B	191	3.827	84.472	28.561	1.00	14.41	B	C
ATOM	3500	CD1	ILE	B	191	3.575	84.556	30.065	1.00	15.15	B	C
ATOM	3501	C	ILE	B	191	2.206	85.902	25.371	1.00	17.73	B	C
ATOM	3502	O	ILE	B	191	1.431	85.201	24.730	1.00	17.39	B	O
ATOM	3503	N	GLU	B	192	2.174	87.227	25.343	1.00	19.90	B	N
ATOM	3504	CA	GLU	B	192	1.206	87.955	24.545	1.00	20.35	B	C
ATOM	3505	CB	GLU	B	192	1.368	89.452	24.811	1.00	22.52	B	C
ATOM	3506	CG	GLU	B	192	0.186	90.301	24.426	1.00	31.49	B	C
ATOM	3507	CD	GLU	B	192	0.310	91.705	24.981	1.00	36.51	B	C
ATOM	3508	OE1	GLU	B	192	0.342	91.845	26.223	1.00	39.33	B	O
ATOM	3509	OE2	GLU	B	192	0.384	92.660	24.179	1.00	38.77	B	O
ATOM	3510	C	GLU	B	192	1.468	87.638	23.077	1.00	18.85	B	C
ATOM	3511	O	GLU	B	192	0.553	87.274	22.327	1.00	18.00	B	O
ATOM	3512	N	GLY	B	193	2.733	87.764	22.685	1.00	19.26	B	N
ATOM	3513	CA	GLY	B	193	3.134	87.497	21.319	1.00	16.37	B	C
ATOM	3514	C	GLY	B	193	2.843	86.078	20.880	1.00	17.40	B	C
ATOM	3515	O	GLY	B	193	2.580	85.832	19.700	1.00	19.53	B	O
ATOM	3516	N	TYR	B	194	2.892	85.138	21.819	1.00	15.60	B	N
ATOM	3517	CA	TYR	B	194	2.621	83.740	21.494	1.00	16.39	B	C
ATOM	3518	CB	TYR	B	194	2.829	82.845	22.715	1.00	16.47	B	C
ATOM	3519	CG	TYR	B	194	2.502	81.386	22.452	1.00	15.75	B	C
ATOM	3520	CD1	TYR	B	194	3.470	80.515	21.964	1.00	17.79	B	C
ATOM	3521	CE1	TYR	B	194	3.171	79.178	21.698	1.00	18.26	B	C
ATOM	3522	CD2	TYR	B	194	1.216	80.887	22.669	1.00	15.15	B	C
ATOM	3523	CE2	TYR	B	194	0.904	79.551	22.403	1.00	16.44	B	C
ATOM	3524	CZ	TYR	B	194	1.890	78.703	21.920	1.00	15.60	B	C
ATOM	3525	OH	TYR	B	194	1.614	77.379	21.671	1.00	17.72	B	O
ATOM	3526	C	TYR	B	194	1.189	83.551	21.003	1.00	16.01	B	C
ATOM	3527	O	TYR	B	194	0.966	82.985	19.940	1.00	17.33	B	O
ATOM	3528	N	PHE	B	195	0.218	84.011	21.785	1.00	17.37	B	N
ATOM	3529	CA	PHE	B	195	-1.177	83.851	21.390	1.00	19.84	B	C
ATOM	3530	CB	PHE	B	195	-2.108	84.174	22.563	1.00	20.48	B	C
ATOM	3531	CG	PHE	B	195	-2.057	83.146	23.659	1.00	21.18	B	C
ATOM	3532	CD1	PHE	B	195	-1.166	83.281	24.720	1.00	20.24	B	C
ATOM	3533	CD2	PHE	B	195	-2.847	82.002	23.590	1.00	20.40	B	C
ATOM	3534	CE1	PHE	B	195	-1.061	82.289	25.692	1.00	18.52	B	C
ATOM	3535	CE2	PHE	B	195	-2.748	81.004	24.558	1.00	21.83	B	C
ATOM	3536	CZ	PHE	B	195	-1.853	81.149	25.609	1.00	18.80	B	C
ATOM	3537	C	PHE	B	195	-1.549	84.675	20.168	1.00	21.22	B	C
ATOM	3538	O	PHE	B	195	-2.381	84.260	19.364	1.00	23.42	B	O
ATOM	3539	N	MET	B	196	-0.920	85.835	20.018	1.00	20.91	B	N
ATOM	3540	CA	MET	B	196	-1.191	86.691	18.874	1.00	22.63	B	C
ATOM	3541	CB	MET	B	196	-0.632	88.096	19.110	1.00	21.19	B	C
ATOM	3542	CG	MET	B	196	-1.454	88.939	20.066	1.00	21.47	B	C
ATOM	3543	SD	MET	B	196	-3.106	89.333	19.420	1.00	22.89	B	S
ATOM	3544	CE	MET	B	196	-2.734	90.738	18.369	1.00	25.90	B	C
ATOM	3545	C	MET	B	196	-0.574	86.098	17.616	1.00	22.76	B	C
ATOM	3546	O	MET	B	196	-1.034	86.365	16.510	1.00	22.32	B	O
ATOM	3547	N	GLY	B	197	0.462	85.284	17.788	1.00	23.35	B	N
ATOM	3548	CA	GLY	B	197	1.117	84.682	16.644	1.00	23.78	B	C

Figure 5KKK

ATOM	3549	C	GLY B 197	0.612	83.294	16.308	1.00	26.07	B	C
ATOM	3550	O	GLY B 197	0.757	82.836	15.178	1.00	27.06	B	O
ATOM	3551	N	HIS B 198	0.011	82.618	17.280	1.00	24.62	B	N
ATOM	3552	CA	HIS B 198	-0.489	81.270	17.052	1.00	25.26	B	C
ATOM	3553	CB	HIS B 198	-0.143	80.393	18.250	1.00	24.79	B	C
ATOM	3554	CG	HIS B 198	1.318	80.087	18.358	1.00	27.65	B	C
ATOM	3555	CD2	HIS B 198	2.369	80.867	18.706	1.00	27.06	B	C
ATOM	3556	ND1	HIS B 198	1.847	78.858	18.026	1.00	29.54	B	N
ATOM	3557	CE1	HIS B 198	3.161	78.896	18.162	1.00	28.74	B	C
ATOM	3558	NE2	HIS B 198	3.503	80.104	18.572	1.00	27.31	B	N
ATOM	3559	C	HIS B 198	-1.982	81.189	16.742	1.00	25.16	B	C
ATOM	3560	O	HIS B 198	-2.470	80.160	16.274	1.00	25.84	B	O
ATOM	3561	N	PHE B 199	-2.701	82.274	17.002	1.00	23.99	B	N
ATOM	3562	CA	PHE B 199	-4.134	82.323	16.731	1.00	25.24	B	C
ATOM	3563	CB	PHE B 199	-4.939	82.150	18.021	1.00	25.35	B	C
ATOM	3564	CG	PHE B 199	-4.641	80.875	18.754	1.00	25.83	B	C
ATOM	3565	CD1	PHE B 199	-3.499	80.763	19.543	1.00	25.81	B	C
ATOM	3566	CD2	PHE B 199	-5.486	79.776	18.634	1.00	26.63	B	C
ATOM	3567	CE1	PHE B 199	-3.202	79.571	20.204	1.00	25.90	B	C
ATOM	3568	CE2	PHE B 199	-5.200	78.574	19.292	1.00	27.07	B	C
ATOM	3569	CZ	PHE B 199	-4.053	78.476	20.078	1.00	25.59	B	C
ATOM	3570	C	PHE B 199	-4.488	83.658	16.085	1.00	25.45	B	C
ATOM	3571	O	PHE B 199	-3.741	84.633	16.202	1.00	26.05	B	O
ATOM	3572	N	ALA B 200	-5.624	83.698	15.397	1.00	25.36	B	N
ATOM	3573	CA	ALA B 200	-6.066	84.926	14.744	1.00	26.49	B	C
ATOM	3574	CB	ALA B 200	-6.945	84.592	13.543	1.00	27.04	B	C
ATOM	3575	C	ALA B 200	-6.842	85.770	15.748	1.00	25.75	B	C
ATOM	3576	O	ALA B 200	-8.035	85.555	15.951	1.00	27.07	B	O
ATOM	3577	N	LEU B 201	-6.162	86.723	16.380	1.00	26.03	B	N
ATOM	3578	CA	LEU B 201	-6.801	87.588	17.371	1.00	25.45	B	C
ATOM	3579	CB	LEU B 201	-6.206	87.345	18.762	1.00	26.37	B	C
ATOM	3580	CG	LEU B 201	-6.409	85.971	19.404	1.00	27.87	B	C
ATOM	3581	CD1	LEU B 201	-5.727	85.944	20.768	1.00	27.55	B	C
ATOM	3582	CD2	LEU B 201	-7.895	85.681	19.539	1.00	28.11	B	C
ATOM	3583	C	LEU B 201	-6.668	89.069	17.041	1.00	24.86	B	C
ATOM	3584	O	LEU B 201	-5.571	89.565	16.801	1.00	25.77	B	O
ATOM	3585	N	PRO B 202	-7.792	89.795	17.036	1.00	25.07	B	N
ATOM	3586	CD	PRO B 202	-9.159	89.302	17.284	1.00	27.27	B	C
ATOM	3587	CA	PRO B 202	-7.801	91.229	16.739	1.00	27.30	B	C
ATOM	3588	CB	PRO B 202	-9.286	91.530	16.571	1.00	26.61	B	C
ATOM	3589	CG	PRO B 202	-9.919	90.581	17.541	1.00	28.74	B	C
ATOM	3590	C	PRO B 202	-7.162	92.024	17.878	1.00	28.85	B	C
ATOM	3591	O	PRO B 202	-6.625	93.111	17.676	1.00	31.54	B	O
ATOM	3592	N	THR B 203	-7.228	91.467	19.080	1.00	29.83	B	N
ATOM	3593	CA	THR B 203	-6.649	92.104	20.253	1.00	30.73	B	C
ATOM	3594	CB	THR B 203	-7.717	92.910	21.029	1.00	32.69	B	C
ATOM	3595	OG1	THR B 203	-7.113	93.535	22.168	1.00	38.76	B	O
ATOM	3596	CG2	THR B 203	-8.854	92.009	21.478	1.00	34.49	B	C
ATOM	3597	C	THR B 203	-6.057	91.009	21.142	1.00	30.11	B	C
ATOM	3598	O	THR B 203	-6.632	89.929	21.281	1.00	29.77	B	O
ATOM	3599	N	PRO B 204	-4.888	91.271	21.746	1.00	28.28	B	N
ATOM	3600	CD	PRO B 204	-4.105	92.519	21.714	1.00	29.99	B	C
ATOM	3601	CA	PRO B 204	-4.249	90.278	22.608	1.00	25.72	B	C
ATOM	3602	CB	PRO B 204	-2.871	90.878	22.851	1.00	27.64	B	C
ATOM	3603	CG	PRO B 204	-3.170	92.344	22.895	1.00	30.54	B	C
ATOM	3604	C	PRO B 204	-5.007	90.034	23.906	1.00	22.99	B	C
ATOM	3605	O	PRO B 204	-5.829	90.847	24.322	1.00	21.45	B	O
ATOM	3606	N	PRO B 205	-4.754	88.888	24.550	1.00	23.17	B	N

Figure 5LLL

ATOM	3607	CD	PRO B 205	-3.967	87.734	24.079	1.00	22.14	B	C
ATOM	3608	CA	PRO B 205	-5.435	88.579	25.812	1.00	21.71	B	C
ATOM	3609	CB	PRO B 205	-4.930	87.177	26.145	1.00	20.02	B	C
ATOM	3610	CG	PRO B 205	-4.640	86.587	24.791	1.00	24.28	B	C
ATOM	3611	C	PRO B 205	-5.013	89.592	26.870	1.00	20.42	B	C
ATOM	3612	O	PRO B 205	-3.884	90.081	26.855	1.00	20.68	B	O
ATOM	3613	N	LEU B 206	-5.920	89.912	27.781	1.00	19.56	B	N
ATOM	3614	CA	LEU B 206	-5.614	90.852	28.844	1.00	18.19	B	C
ATOM	3615	CB	LEU B 206	-6.903	91.341	29.506	1.00	19.98	B	C
ATOM	3616	CG	LEU B 206	-6.733	92.187	30.772	1.00	20.16	B	C
ATOM	3617	CD1	LEU B 206	-6.025	93.490	30.435	1.00	20.32	B	C
ATOM	3618	CD2	LEU B 206	-8.097	92.461	31.383	1.00	21.77	B	C
ATOM	3619	C	LEU B 206	-4.748	90.152	29.887	1.00	19.09	B	C
ATOM	3620	O	LEU B 206	-5.155	89.137	30.460	1.00	16.01	B	O
ATOM	3621	N	LEU B 207	-3.554	90.682	30.130	1.00	17.87	B	N
ATOM	3622	CA	LEU B 207	-2.673	90.086	31.128	1.00	19.96	B	C
ATOM	3623	CB	LEU B 207	-1.204	90.137	30.683	1.00	20.75	B	C
ATOM	3624	CG	LEU B 207	-0.775	89.375	29.427	1.00	23.64	B	C
ATOM	3625	CD1	LEU B 207	0.754	89.247	29.409	1.00	24.69	B	C
ATOM	3626	CD2	LEU B 207	-1.402	88.003	29.411	1.00	25.49	B	C
ATOM	3627	C	LEU B 207	-2.822	90.826	32.450	1.00	18.55	B	C
ATOM	3628	O	LEU B 207	-2.846	92.056	32.489	1.00	19.17	B	O
ATOM	3629	N	ILE B 208	-2.925	90.067	33.534	1.00	17.96	B	N
ATOM	3630	CA	ILE B 208	-3.064	90.645	34.860	1.00	17.50	B	C
ATOM	3631	CB	ILE B 208	-4.118	89.878	35.685	1.00	17.43	B	C
ATOM	3632	CG2	ILE B 208	-4.243	90.491	37.077	1.00	18.18	B	C
ATOM	3633	CG1	ILE B 208	-5.459	89.892	34.943	1.00	18.45	B	C
ATOM	3634	CD1	ILE B 208	-6.012	91.289	34.699	1.00	14.50	B	C
ATOM	3635	C	ILE B 208	-1.719	90.585	35.575	1.00	16.82	B	C
ATOM	3636	O	ILE B 208	-1.164	89.508	35.780	1.00	15.89	B	O
ATOM	3637	N	HIS B 209	-1.213	91.756	35.950	1.00	17.14	B	N
ATOM	3638	CA	HIS B 209	0.074	91.899	36.632	1.00	18.16	B	C
ATOM	3639	CB	HIS B 209	0.745	93.175	36.106	1.00	18.91	B	C
ATOM	3640	CG	HIS B 209	2.193	93.306	36.457	1.00	20.99	B	C
ATOM	3641	CD2	HIS B 209	3.306	93.162	35.699	1.00	19.36	B	C
ATOM	3642	ND1	HIS B 209	2.629	93.657	37.716	1.00	22.36	B	N
ATOM	3643	CE1	HIS B 209	3.949	93.725	37.718	1.00	21.52	B	C
ATOM	3644	NE2	HIS B 209	4.384	93.429	36.506	1.00	15.94	B	N
ATOM	3645	C	HIS B 209	-0.149	91.980	38.150	1.00	17.31	B	C
ATOM	3646	O	HIS B 209	-0.909	92.826	38.621	1.00	17.80	B	O
ATOM	3647	N	SER B 210	0.513	91.104	38.908	1.00	15.90	B	N
ATOM	3648	CA	SER B 210	0.361	91.070	40.366	1.00	18.09	B	C
ATOM	3649	CB	SER B 210	1.187	89.931	40.975	1.00	15.92	B	C
ATOM	3650	OG	SER B 210	0.783	88.671	40.475	1.00	17.30	B	O
ATOM	3651	C	SER B 210	0.762	92.368	41.048	1.00	18.89	B	C
ATOM	3652	O	SER B 210	0.146	92.783	42.036	1.00	18.64	B	O
ATOM	3653	N	GLY B 211	1.806	92.999	40.527	1.00	18.49	B	N
ATOM	3654	CA	GLY B 211	2.276	94.241	41.105	1.00	17.93	B	C
ATOM	3655	C	GLY B 211	1.300	95.384	40.929	1.00	18.65	B	C
ATOM	3656	O	GLY B 211	0.988	96.088	41.888	1.00	18.89	B	O
ATOM	3657	N	ASP B 212	0.821	95.585	39.708	1.00	17.89	B	N
ATOM	3658	CA	ASP B 212	-0.122	96.666	39.454	1.00	19.78	B	C
ATOM	3659	CB	ASP B 212	-0.441	96.776	37.959	1.00	21.36	B	C
ATOM	3660	CG	ASP B 212	0.789	97.074	37.119	1.00	25.55	B	C
ATOM	3661	OD1	ASP B 212	1.588	97.954	37.509	1.00	24.93	B	O
ATOM	3662	OD2	ASP B 212	0.948	96.432	36.059	1.00	27.71	B	O
ATOM	3663	C	ASP B 212	-1.414	96.441	40.227	1.00	18.76	B	C
ATOM	3664	O	ASP B 212	-2.025	97.389	40.712	1.00	19.27	B	O

Figure 5MMM

ATOM	3665	N	ALA B 213	-1.825	95.182	40.344	1.00	19.86	B	N
ATOM	3666	CA	ALA B 213	-3.055	94.847	41.054	1.00	17.54	B	C
ATOM	3667	CB	ALA B 213	-3.378	93.372	40.876	1.00	17.05	B	C
ATOM	3668	C	ALA B 213	-2.959	95.183	42.539	1.00	19.06	B	C
ATOM	3669	O	ALA B 213	-3.901	95.725	43.120	1.00	16.90	B	O
ATOM	3670	N	ILE B 214	-1.823	94.876	43.158	1.00	15.97	B	N
ATOM	3671	CA	ILE B 214	-1.678	95.162	44.577	1.00	16.41	B	C
ATOM	3672	CB	ILE B 214	-0.503	94.357	45.206	1.00	17.51	B	C
ATOM	3673	CG2	ILE B 214	0.841	94.960	44.809	1.00	16.99	B	C
ATOM	3674	CG1	ILE B 214	-0.639	94.359	46.733	1.00	17.48	B	C
ATOM	3675	CD1	ILE B 214	0.283	93.366	47.436	1.00	20.67	B	C
ATOM	3676	C	ILE B 214	-1.516	96.656	44.864	1.00	16.49	B	C
ATOM	3677	O	ILE B 214	-1.933	97.133	45.917	1.00	16.10	B	O
ATOM	3678	N	VAL B 215	-0.927	97.403	43.933	1.00	16.36	B	N
ATOM	3679	CA	VAL B 215	-0.772	98.841	44.139	1.00	17.16	B	C
ATOM	3680	CB	VAL B 215	-0.016	99.509	42.964	1.00	19.48	B	C
ATOM	3681	CG1	VAL B 215	-0.179	101.017	43.027	1.00	17.77	B	C
ATOM	3682	CG2	VAL B 215	1.470	99.147	43.022	1.00	17.10	B	C
ATOM	3683	C	VAL B 215	-2.161	99.471	44.259	1.00	18.05	B	C
ATOM	3684	O	VAL B 215	-2.417	100.282	45.153	1.00	17.39	B	O
ATOM	3685	N	GLU B 216	-3.054	99.089	43.354	1.00	19.67	B	N
ATOM	3686	CA	GLU B 216	-4.411	99.617	43.357	1.00	21.54	B	C
ATOM	3687	CB	GLU B 216	-5.188	99.059	42.166	1.00	23.84	B	C
ATOM	3688	CG	GLU B 216	-4.815	99.727	40.853	1.00	26.87	B	C
ATOM	3689	CD	GLU B 216	-5.388	99.014	39.648	1.00	30.91	B	C
ATOM	3690	OE1	GLU B 216	-5.399	99.623	38.558	1.00	34.30	B	O
ATOM	3691	OE2	GLU B 216	-5.815	97.845	39.785	1.00	31.99	B	O
ATOM	3692	C	GLU B 216	-5.126	99.293	44.657	1.00	20.92	B	C
ATOM	3693	O	GLU B 216	-5.815	100.141	45.223	1.00	19.64	B	O
ATOM	3694	N	TYR B 217	-4.955	98.065	45.135	1.00	21.71	B	N
ATOM	3695	CA	TYR B 217	-5.583	97.649	46.386	1.00	21.99	B	C
ATOM	3696	CB	TYR B 217	-5.307	96.167	46.658	1.00	22.18	B	C
ATOM	3697	CG	TYR B 217	-5.831	95.693	47.995	1.00	20.53	B	C
ATOM	3698	CD1	TYR B 217	-7.199	95.534	48.213	1.00	22.61	B	C
ATOM	3699	CE1	TYR B 217	-7.692	95.113	49.456	1.00	20.09	B	C
ATOM	3700	CD2	TYR B 217	-4.961	95.422	49.051	1.00	19.57	B	C
ATOM	3701	CE2	TYR B 217	-5.440	95.002	50.293	1.00	19.82	B	C
ATOM	3702	CZ	TYR B 217	-6.807	94.849	50.488	1.00	20.38	B	C
ATOM	3703	OH	TYR B 217	-7.288	94.422	51.709	1.00	19.08	B	O
ATOM	3704	C	TYR B 217	-5.056	98.473	47.558	1.00	22.00	B	C
ATOM	3705	O	TYR B 217	-5.832	98.992	48.362	1.00	21.85	B	O
ATOM	3706	N	LEU B 218	-3.734	98.591	47.654	1.00	19.08	B	N
ATOM	3707	CA	LEU B 218	-3.113	99.341	48.740	1.00	19.40	B	C
ATOM	3708	CB	LEU B 218	-1.585	99.279	48.615	1.00	17.82	B	C
ATOM	3709	CG	LEU B 218	-0.941	97.888	48.742	1.00	18.28	B	C
ATOM	3710	CD1	LEU B 218	0.541	97.968	48.389	1.00	15.96	B	C
ATOM	3711	CD2	LEU B 218	-1.128	97.353	50.155	1.00	16.26	B	C
ATOM	3712	C	LEU B 218	-3.582	100.798	48.791	1.00	21.94	B	C
ATOM	3713	O	LEU B 218	-3.841	101.335	49.866	1.00	18.51	B	O
ATOM	3714	N	GLN B 219	-3.691	101.433	47.629	1.00	22.92	B	N
ATOM	3715	CA	GLN B 219	-4.139	102.822	47.562	1.00	24.80	B	C
ATOM	3716	CB	GLN B 219	-4.004	103.353	46.129	1.00	26.04	B	C
ATOM	3717	CG	GLN B 219	-2.577	103.325	45.592	1.00	28.25	B	C
ATOM	3718	CD	GLN B 219	-2.470	103.820	44.156	1.00	28.07	B	C
ATOM	3719	OE1	GLN B 219	-3.166	103.334	43.262	1.00	25.98	B	O
ATOM	3720	NE2	GLN B 219	-1.588	104.790	43.932	1.00	30.48	B	N
ATOM	3721	C	GLN B 219	-5.596	102.914	48.005	1.00	24.27	B	C
ATOM	3722	O	GLN B 219	-5.995	103.859	48.683	1.00	25.16	B	O

Figure 5NNN

ATOM	3723	N	GLN B 220	-6.375	101.912	47.620	1.00	24.30	B	N
ATOM	3724	CA	GLN B 220	-7.792	101.838	47.943	1.00	28.00	B	C
ATOM	3725	CB	GLN B 220	-8.410	100.663	47.184	1.00	31.02	B	C
ATOM	3726	CG	GLN B 220	-9.920	100.674	47.077	1.00	39.36	B	C
ATOM	3727	CD	GLN B 220	-10.411	101.639	46.020	1.00	44.14	B	C
ATOM	3728	OE1	GLN B 220	-10.260	102.854	46.154	1.00	47.44	B	O
ATOM	3729	NE2	GLN B 220	-10.995	101.101	44.954	1.00	47.51	B	N
ATOM	3730	C	GLN B 220	-8.013	101.635	49.444	1.00	29.46	B	C
ATOM	3731	O	GLN B 220	-8.553	102.499	50.137	1.00	28.33	B	O
ATOM	3732	N	LYS B 221	-7.570	100.477	49.927	1.00	29.84	B	N
ATOM	3733	CA	LYS B 221	-7.720	100.075	51.321	1.00	28.05	B	C
ATOM	3734	CB	LYS B 221	-7.249	98.626	51.477	1.00	29.20	B	C
ATOM	3735	CG	LYS B 221	-8.124	97.761	52.381	1.00	33.06	B	C
ATOM	3736	CD	LYS B 221	-8.114	98.242	53.817	1.00	34.46	B	C
ATOM	3737	CE	LYS B 221	-8.796	97.239	54.738	1.00	34.63	B	C
ATOM	3738	NZ	LYS B 221	-8.003	95.993	54.896	1.00	31.31	B	N
ATOM	3739	C	LYS B 221	-7.012	100.953	52.345	1.00	27.08	B	C
ATOM	3740	O	LYS B 221	-7.556	101.230	53.416	1.00	27.24	B	O
ATOM	3741	N	TYR B 222	-5.804	101.399	52.029	1.00	25.82	B	N
ATOM	3742	CA	TYR B 222	-5.052	102.212	52.973	1.00	27.04	B	C
ATOM	3743	CB	TYR B 222	-3.658	101.616	53.147	1.00	22.44	B	C
ATOM	3744	CG	TYR B 222	-3.708	100.166	53.576	1.00	22.86	B	C
ATOM	3745	CD1	TYR B 222	-4.156	99.815	54.854	1.00	19.32	B	C
ATOM	3746	CE1	TYR B 222	-4.258	98.484	55.243	1.00	19.44	B	C
ATOM	3747	CD2	TYR B 222	-3.357	99.134	52.694	1.00	20.72	B	C
ATOM	3748	CE2	TYR B 222	-3.456	97.792	53.078	1.00	19.21	B	C
ATOM	3749	CZ	TYR B 222	-3.909	97.482	54.351	1.00	19.82	B	C
ATOM	3750	OH	TYR B 222	-4.027	96.167	54.725	1.00	19.05	B	O
ATOM	3751	C	TYR B 222	-4.968	103.667	52.539	1.00	29.48	B	C
ATOM	3752	O	TYR B 222	-4.096	104.405	52.986	1.00	31.72	B	O
ATOM	3753	N	ALA B 223	-5.900	104.089	51.696	1.00	32.87	B	N
ATOM	3754	CA	ALA B 223	-5.895	105.466	51.201	1.00	36.60	B	C
ATOM	3755	CB	ALA B 223	-6.672	106.421	52.148	1.00	37.41	B	C
ATOM	3756	C	ALA B 223	-4.442	105.909	51.088	1.00	38.06	B	C
ATOM	3757	O	ALA B 223	-4.060	106.977	51.560	1.00	38.78	B	O
ATOM	3758	N	LEU B 224	-3.627	105.088	50.441	1.00	38.57	B	N
ATOM	3759	CA	LEU B 224	-2.215	105.403	50.264	1.00	38.61	B	C
ATOM	3760	CB	LEU B 224	-1.402	104.097	50.136	1.00	39.37	B	C
ATOM	3761	CG	LEU B 224	-1.183	103.355	51.466	1.00	39.96	B	C
ATOM	3762	CD1	LEU B 224	-0.057	102.350	51.297	1.00	39.16	B	C
ATOM	3763	CD2	LEU B 224	-0.818	104.336	52.585	1.00	41.79	B	C
ATOM	3764	C	LEU B 224	-1.949	106.306	49.064	1.00	38.91	B	C
ATOM	3765	O	LEU B 224	-2.714	106.190	48.105	1.00	38.22	B	O
ATOM	3766	OXT	LEU B 224	-0.969	107.085	49.068	1.00	39.30	B	O
ATOM	3767	CB	PRO B 232	11.684	106.007	48.754	1.00	35.25	B	C
ATOM	3768	CG	PRO B 232	11.385	107.285	47.963	1.00	36.48	B	C
ATOM	3769	C	PRO B 232	13.583	105.559	50.328	1.00	32.21	B	C
ATOM	3770	O	PRO B 232	14.407	105.139	49.517	1.00	33.63	B	O
ATOM	3771	N	PRO B 232	13.132	107.820	49.423	1.00	34.70	B	N
ATOM	3772	CD	PRO B 232	12.673	108.108	48.053	1.00	35.80	B	C
ATOM	3773	CA	PRO B 232	12.514	106.559	49.903	1.00	34.68	B	C
ATOM	3774	N	LYS B 233	13.566	105.183	51.602	1.00	30.94	B	N
ATOM	3775	CA	LYS B 233	14.542	104.237	52.126	1.00	27.68	B	C
ATOM	3776	CB	LYS B 233	14.693	104.412	53.637	1.00	30.73	B	C
ATOM	3777	CG	LYS B 233	15.074	105.817	54.076	1.00	37.18	B	C
ATOM	3778	CD	LYS B 233	15.073	105.930	55.594	1.00	41.29	B	C
ATOM	3779	CE	LYS B 233	15.358	107.357	56.045	1.00	46.10	B	C
ATOM	3780	NZ	LYS B 233	15.389	107.476	57.535	1.00	49.46	B	N

Figure 5000

ATOM	3781	C	LYS B 233	14.115	102.805	51.823	1.00	25.78	B	C
ATOM	3782	O	LYS B 233	12.984	102.404	52.108	1.00	21.74	B	O
ATOM	3783	N	VAL B 234	15.027	102.041	51.238	1.00	23.23	B	N
ATOM	3784	CA	VAL B 234	14.755	100.652	50.902	1.00	22.01	B	C
ATOM	3785	CB	VAL B 234	14.425	100.486	49.403	1.00	22.47	B	C
ATOM	3786	CG1	VAL B 234	14.095	99.034	49.105	1.00	23.89	B	C
ATOM	3787	CG2	VAL B 234	13.267	101.386	49.015	1.00	24.31	B	C
ATOM	3788	C	VAL B 234	15.997	99.825	51.204	1.00	21.91	B	C
ATOM	3789	O	VAL B 234	17.083	100.121	50.702	1.00	19.49	B	O
ATOM	3790	N	GLU B 235	15.850	98.805	52.041	1.00	19.26	B	N
ATOM	3791	CA	GLU B 235	16.987	97.956	52.343	1.00	19.57	B	C
ATOM	3792	CB	GLU B 235	17.407	98.085	53.812	1.00	22.19	B	C
ATOM	3793	CG	GLU B 235	16.367	97.736	54.849	1.00	27.30	B	C
ATOM	3794	CD	GLU B 235	16.893	97.954	56.266	1.00	31.20	B	C
ATOM	3795	OE1	GLU B 235	17.214	99.113	56.617	1.00	30.91	B	O
ATOM	3796	OE2	GLU B 235	16.992	96.967	57.027	1.00	31.05	B	O
ATOM	3797	C	GLU B 235	16.667	96.513	51.979	1.00	17.90	B	C
ATOM	3798	O	GLU B 235	15.514	96.071	52.067	1.00	17.20	B	O
ATOM	3799	N	PHE B 236	17.694	95.797	51.538	1.00	15.16	B	N
ATOM	3800	CA	PHE B 236	17.540	94.417	51.121	1.00	14.57	B	C
ATOM	3801	CB	PHE B 236	18.080	94.240	49.702	1.00	13.24	B	C
ATOM	3802	CG	PHE B 236	17.406	95.123	48.695	1.00	14.78	B	C
ATOM	3803	CD1	PHE B 236	17.807	96.448	48.529	1.00	13.54	B	C
ATOM	3804	CD2	PHE B 236	16.338	94.647	47.944	1.00	13.10	B	C
ATOM	3805	CE1	PHE B 236	17.148	97.281	47.625	1.00	15.52	B	C
ATOM	3806	CE2	PHE B 236	15.676	95.471	47.043	1.00	11.79	B	C
ATOM	3807	CZ	PHE B 236	16.083	96.792	46.884	1.00	13.41	B	C
ATOM	3808	C	PHE B 236	18.206	93.432	52.055	1.00	14.79	B	C
ATOM	3809	O	PHE B 236	19.298	93.668	52.566	1.00	14.15	B	O
ATOM	3810	N	HIS B 237	17.519	92.319	52.270	1.00	13.68	B	N
ATOM	3811	CA	HIS B 237	17.993	91.266	53.147	1.00	11.28	B	C
ATOM	3812	CB	HIS B 237	17.235	91.319	54.466	1.00	12.27	B	C
ATOM	3813	CG	HIS B 237	17.437	92.597	55.219	1.00	14.02	B	C
ATOM	3814	CD2	HIS B 237	16.779	93.778	55.159	1.00	14.88	B	C
ATOM	3815	ND1	HIS B 237	18.460	92.771	56.126	1.00	14.41	B	N
ATOM	3816	CE1	HIS B 237	18.423	94.006	56.593	1.00	18.35	B	C
ATOM	3817	NE2	HIS B 237	17.413	94.638	56.023	1.00	14.90	B	N
ATOM	3818	C	HIS B 237	17.705	89.961	52.437	1.00	13.01	B	C
ATOM	3819	O	HIS B 237	16.725	89.860	51.702	1.00	12.07	B	O
ATOM	3820	N	ALA B 238	18.554	88.967	52.665	1.00	12.63	B	N
ATOM	3821	CA	ALA B 238	18.387	87.671	52.022	1.00	11.54	B	C
ATOM	3822	CB	ALA B 238	19.018	87.700	50.639	1.00	9.85	B	C
ATOM	3823	C	ALA B 238	19.010	86.554	52.836	1.00	14.48	B	C
ATOM	3824	O	ALA B 238	19.998	86.765	53.533	1.00	14.69	B	O
ATOM	3825	N	SER B 239	18.424	85.364	52.741	1.00	14.68	B	N
ATOM	3826	CA	SER B 239	18.948	84.202	53.447	1.00	14.80	B	C
ATOM	3827	CB	SER B 239	17.862	83.141	53.608	1.00	13.43	B	C
ATOM	3828	OG	SER B 239	17.340	82.758	52.355	1.00	13.26	B	O
ATOM	3829	C	SER B 239	20.104	83.656	52.614	1.00	14.91	B	C
ATOM	3830	O	SER B 239	20.945	82.902	53.107	1.00	12.99	B	O
ATOM	3831	N	GLY B 240	20.134	84.050	51.344	1.00	14.12	B	N
ATOM	3832	CA	GLY B 240	21.197	83.631	50.455	1.00	15.59	B	C
ATOM	3833	C	GLY B 240	22.217	84.752	50.346	1.00	16.66	B	C
ATOM	3834	O	GLY B 240	22.520	85.416	51.334	1.00	16.99	B	O
ATOM	3835	N	ASP B 241	22.732	84.985	49.145	1.00	15.94	B	N
ATOM	3836	CA	ASP B 241	23.722	86.036	48.947	1.00	17.18	B	C
ATOM	3837	CB	ASP B 241	24.487	85.795	47.649	1.00	18.32	B	C
ATOM	3838	CG	ASP B 241	25.703	86.673	47.527	1.00	21.73	B	C

Figure 5PPP

ATOM	3839	OD1 ASP B 241	25.702	87.771	48.126	1.00	22.80	B	O
ATOM	3840	OD2 ASP B 241	26.653	86.277	46.824	1.00	23.86	B	O
ATOM	3841	C ASP B 241	23.070	87.416	48.899	1.00	15.91	B	C
ATOM	3842	O ASP B 241	22.566	87.838	47.855	1.00	18.69	B	O
ATOM	3843	N VAL B 242	23.091	88.125	50.022	1.00	15.82	B	N
ATOM	3844	CA VAL B 242	22.480	89.447	50.079	1.00	15.47	B	C
ATOM	3845	CB VAL B 242	22.373	89.961	51.538	1.00	14.55	B	C
ATOM	3846	CG1 VAL B 242	23.753	90.329	52.079	1.00	14.67	B	C
ATOM	3847	CG2 VAL B 242	21.405	91.147	51.599	1.00	13.95	B	C
ATOM	3848	C VAL B 242	23.230	90.480	49.242	1.00	16.20	B	C
ATOM	3849	O VAL B 242	22.624	91.396	48.693	1.00	16.97	B	O
ATOM	3850	N ILE B 243	24.546	90.347	49.145	1.00	15.87	B	N
ATOM	3851	CA ILE B 243	25.307	91.303	48.351	1.00	15.88	B	C
ATOM	3852	CB ILE B 243	26.833	91.076	48.512	1.00	17.32	B	C
ATOM	3853	CG2 ILE B 243	27.606	91.924	47.510	1.00	17.19	B	C
ATOM	3854	CG1 ILE B 243	27.249	91.447	49.940	1.00	19.37	B	C
ATOM	3855	CD1 ILE B 243	28.685	91.096	50.286	1.00	19.42	B	C
ATOM	3856	C ILE B 243	24.882	91.191	46.889	1.00	14.23	B	C
ATOM	3857	O ILE B 243	24.745	92.200	46.201	1.00	14.19	B	O
ATOM	3858	N TRP B 244	24.651	89.967	46.421	1.00	14.60	B	N
ATOM	3859	CA TRP B 244	24.207	89.756	45.046	1.00	14.98	B	C
ATOM	3860	CB TRP B 244	24.078	88.264	44.729	1.00	15.60	B	C
ATOM	3861	CG TRP B 244	23.575	87.999	43.329	1.00	16.65	B	C
ATOM	3862	CD2 TRP B 244	22.210	87.806	42.930	1.00	19.35	B	C
ATOM	3863	CE2 TRP B 244	22.206	87.617	41.527	1.00	18.45	B	C
ATOM	3864	CE3 TRP B 244	20.989	87.775	43.622	1.00	18.90	B	C
ATOM	3865	CD1 TRP B 244	24.321	87.924	42.184	1.00	18.57	B	C
ATOM	3866	NE1 TRP B 244	23.506	87.694	41.097	1.00	17.92	B	N
ATOM	3867	CZ2 TRP B 244	21.029	87.398	40.803	1.00	17.47	B	C
ATOM	3868	CZ3 TRP B 244	19.818	87.558	42.902	1.00	18.34	B	C
ATOM	3869	CH2 TRP B 244	19.847	87.371	41.504	1.00	17.51	B	C
ATOM	3870	C TRP B 244	22.845	90.409	44.850	1.00	16.58	B	C
ATOM	3871	O TRP B 244	22.616	91.102	43.859	1.00	17.56	B	O
ATOM	3872	N LEU B 245	21.937	90.180	45.796	1.00	15.30	B	N
ATOM	3873	CA LEU B 245	20.599	90.749	45.707	1.00	15.38	B	C
ATOM	3874	CB LEU B 245	19.746	90.306	46.900	1.00	14.42	B	C
ATOM	3875	CG LEU B 245	18.287	90.782	46.894	1.00	12.51	B	C
ATOM	3876	CD1 LEU B 245	17.536	90.163	45.723	1.00	15.01	B	C
ATOM	3877	CD2 LEU B 245	17.618	90.397	48.215	1.00	15.46	B	C
ATOM	3878	C LEU B 245	20.648	92.270	45.660	1.00	15.93	B	C
ATOM	3879	O LEU B 245	19.895	92.901	44.916	1.00	11.84	B	O
ATOM	3880	N GLU B 246	21.534	92.865	46.454	1.00	16.60	B	N
ATOM	3881	CA GLU B 246	21.636	94.317	46.480	1.00	17.29	B	C
ATOM	3882	CB GLU B 246	22.496	94.782	47.658	1.00	18.17	B	C
ATOM	3883	CG GLU B 246	21.896	94.455	49.020	1.00	19.87	B	C
ATOM	3884	CD GLU B 246	22.776	94.908	50.176	1.00	21.82	B	C
ATOM	3885	OE1 GLU B 246	24.001	94.687	50.101	1.00	23.59	B	O
ATOM	3886	OE2 GLU B 246	22.244	95.471	51.161	1.00	18.84	B	O
ATOM	3887	C GLU B 246	22.213	94.819	45.171	1.00	19.10	B	C
ATOM	3888	O GLU B 246	21.866	95.905	44.711	1.00	18.10	B	O
ATOM	3889	N ARG B 247	23.082	94.016	44.564	1.00	20.90	B	N
ATOM	3890	CA ARG B 247	23.694	94.384	43.296	1.00	21.36	B	C
ATOM	3891	CB ARG B 247	24.819	93.407	42.945	1.00	23.57	B	C
ATOM	3892	CG ARG B 247	25.698	93.843	41.780	1.00	28.81	B	C
ATOM	3893	CD ARG B 247	26.796	92.813	41.516	1.00	31.64	B	C
ATOM	3894	NE ARG B 247	27.648	92.622	42.688	1.00	33.01	B	N
ATOM	3895	CZ ARG B 247	27.953	91.437	43.214	1.00	34.15	B	C
ATOM	3896	NH1 ARG B 247	27.475	90.319	42.678	1.00	32.31	B	N

Figure 5QQQ

ATOM	3897	NH2 ARG B 247	28.742	91.372	44.281	1.00	32.59	B	N
ATOM	3898	C ARG B 247	22.612	94.369	42.218	1.00	21.28	B	C
ATOM	3899	O ARG B 247	22.613	95.212	41.319	1.00	18.68	B	O
ATOM	3900	N GLN B 248	21.689	93.411	42.316	1.00	19.88	B	N
ATOM	3901	CA GLN B 248	20.587	93.310	41.359	1.00	18.33	B	C
ATOM	3902	CB GLN B 248	19.778	92.027	41.586	1.00	16.87	B	C
ATOM	3903	CG GLN B 248	20.458	90.749	41.119	1.00	17.30	B	C
ATOM	3904	CD GLN B 248	20.794	90.768	39.631	1.00	21.87	B	C
ATOM	3905	OE1 GLN B 248	19.946	91.077	38.790	1.00	23.30	B	O
ATOM	3906	NE2 GLN B 248	22.032	90.423	39.304	1.00	24.03	B	N
ATOM	3907	C GLN B 248	19.670	94.518	41.528	1.00	17.34	B	C
ATOM	3908	O GLN B 248	19.166	95.071	40.550	1.00	16.87	B	O
ATOM	3909	N ALA B 249	19.451	94.917	42.777	1.00	15.06	B	N
ATOM	3910	CA ALA B 249	18.598	96.069	43.059	1.00	17.68	B	C
ATOM	3911	CB ALA B 249	18.435	96.240	44.557	1.00	14.89	B	C
ATOM	3912	C ALA B 249	19.210	97.332	42.449	1.00	16.19	B	C
ATOM	3913	O ALA B 249	18.509	98.166	41.878	1.00	15.71	B	O
ATOM	3914	N LYS B 250	20.523	97.466	42.578	1.00	15.67	B	N
ATOM	3915	CA LYS B 250	21.221	98.625	42.039	1.00	16.75	B	C
ATOM	3916	CB LYS B 250	22.686	98.599	42.493	1.00	20.71	B	C
ATOM	3917	CG LYS B 250	23.555	99.725	41.952	1.00	24.70	B	C
ATOM	3918	CD LYS B 250	23.089	101.093	42.425	1.00	29.48	B	C
ATOM	3919	CE LYS B 250	24.028	102.180	41.914	1.00	34.06	B	C
ATOM	3920	NZ LYS B 250	23.548	103.549	42.249	1.00	35.09	B	N
ATOM	3921	C LYS B 250	21.137	98.633	40.514	1.00	16.02	B	C
ATOM	3922	O LYS B 250	20.910	99.672	39.899	1.00	16.61	B	O
ATOM	3923	N GLU B 251	21.300	97.464	39.907	1.00	16.92	B	N
ATOM	3924	CA GLU B 251	21.256	97.366	38.457	1.00	16.87	B	C
ATOM	3925	CB GLU B 251	21.789	96.009	38.000	1.00	17.15	B	C
ATOM	3926	CG GLU B 251	21.913	95.902	36.492	1.00	19.76	B	C
ATOM	3927	CD GLU B 251	22.195	94.495	36.030	1.00	21.03	B	C
ATOM	3928	OE1 GLU B 251	22.812	93.728	36.796	1.00	21.54	B	O
ATOM	3929	OE2 GLU B 251	21.813	94.159	34.891	1.00	23.50	B	O
ATOM	3930	C GLU B 251	19.864	97.561	37.868	1.00	18.30	B	C
ATOM	3931	O GLU B 251	19.696	98.297	36.895	1.00	18.23	B	O
ATOM	3932	N TRP B 252	18.865	96.918	38.464	1.00	17.41	B	N
ATOM	3933	CA TRP B 252	17.509	96.997	37.939	1.00	17.31	B	C
ATOM	3934	CB TRP B 252	16.868	95.610	37.973	1.00	16.21	B	C
ATOM	3935	CG TRP B 252	17.639	94.610	37.197	1.00	16.40	B	C
ATOM	3936	CD2 TRP B 252	17.650	94.459	35.775	1.00	17.43	B	C
ATOM	3937	CE2 TRP B 252	18.546	93.412	35.475	1.00	17.08	B	C
ATOM	3938	CE3 TRP B 252	16.988	95.107	34.723	1.00	20.12	B	C
ATOM	3939	CD1 TRP B 252	18.505	93.677	37.690	1.00	18.25	B	C
ATOM	3940	NE1 TRP B 252	19.053	92.954	36.662	1.00	17.57	B	N
ATOM	3941	CZ2 TRP B 252	18.799	92.996	34.167	1.00	16.27	B	C
ATOM	3942	CZ3 TRP B 252	17.239	94.691	33.416	1.00	18.36	B	C
ATOM	3943	CH2 TRP B 252	18.137	93.646	33.153	1.00	18.85	B	C
ATOM	3944	C TRP B 252	16.555	98.000	38.565	1.00	20.68	B	C
ATOM	3945	O TRP B 252	15.631	98.468	37.896	1.00	23.26	B	O
ATOM	3946	N LEU B 253	16.762	98.333	39.833	1.00	20.19	B	N
ATOM	3947	CA LEU B 253	15.878	99.279	40.508	1.00	22.15	B	C
ATOM	3948	CB LEU B 253	15.392	98.680	41.832	1.00	19.99	B	C
ATOM	3949	CG LEU B 253	14.796	97.269	41.748	1.00	20.08	B	C
ATOM	3950	CD1 LEU B 253	14.520	96.731	43.149	1.00	15.94	B	C
ATOM	3951	CD2 LEU B 253	13.521	97.299	40.918	1.00	20.16	B	C
ATOM	3952	C LEU B 253	16.588	100.602	40.766	1.00	25.98	B	C
ATOM	3953	O LEU B 253	15.971	101.573	41.213	1.00	28.88	B	O
ATOM	3954	N LYS B 254	17.887	100.631	40.478	1.00	28.33	B	N

Figure 5RRR

ATOM	3955	CA	LYS	B	254	18.713	101.822	40.684	1.00	32.00	B	C
ATOM	3956	CB	LYS	B	254	18.210	102.985	39.818	1.00	33.97	B	C
ATOM	3957	CG	LYS	B	254	17.844	102.597	38.388	1.00	37.77	B	C
ATOM	3958	CD	LYS	B	254	18.983	101.890	37.661	1.00	38.80	B	C
ATOM	3959	CE	LYS	B	254	18.544	101.453	36.265	1.00	41.63	B	C
ATOM	3960	NZ	LYS	B	254	19.608	100.705	35.535	1.00	41.49	B	N
ATOM	3961	C	LYS	B	254	18.677	102.214	42.162	1.00	32.29	B	C
ATOM	3962	O	LYS	B	254	18.716	103.399	42.511	1.00	32.23	B	O
ATOM	3963	N	LEU	B	255	18.603	101.201	43.022	1.00	31.24	B	N
ATOM	3964	CA	LEU	B	255	18.560	101.397	44.469	1.00	34.52	B	C
ATOM	3965	CB	LEU	B	255	17.250	100.844	45.039	1.00	34.04	B	C
ATOM	3966	CG	LEU	B	255	15.917	101.437	44.584	1.00	36.59	B	C
ATOM	3967	CD1	LEU	B	255	14.795	100.596	45.162	1.00	35.66	B	C
ATOM	3968	CD2	LEU	B	255	15.791	102.888	45.036	1.00	36.85	B	C
ATOM	3969	C	LEU	B	255	19.727	100.667	45.132	1.00	35.40	B	C
ATOM	3970	O	LEU	B	255	20.326	99.794	44.473	1.00	34.56	B	O
ATOM	3971	OXT	LEU	B	255	20.014	100.959	46.310	1.00	38.02	B	O
ATOM	3972	N	GLD	G	301	22.488	67.641	43.303	1.00	8.65	G	N
ATOM	3973	CA	GLD	G	301	22.952	68.704	42.405	1.00	12.93	G	C
ATOM	3974	CB	GLD	G	301	21.889	69.041	41.338	1.00	11.63	G	C
ATOM	3975	CG	GLD	G	301	20.594	69.573	41.934	1.00	12.92	G	C
ATOM	3976	CD	GLD	G	301	20.824	70.895	42.710	1.00	11.91	G	C
ATOM	3977	OE1	GLD	G	301	21.256	71.889	42.077	1.00	9.76	G	O
ATOM	3978	OE2	GLD	G	301	20.616	70.917	43.937	1.00	14.58	G	O
ATOM	3979	C	GLD	G	301	24.267	68.360	41.735	1.00	11.46	G	C
ATOM	3980	O	GLD	G	301	24.630	67.169	41.697	1.00	11.93	G	O
ATOM	3981	O1	GLD	G	301	24.920	69.308	41.262	1.00	13.36	G	O
ATOM	3982	N	GLD	H	302	8.053	83.746	43.978	1.00	11.84	H	N
ATOM	3983	CA	GLD	H	302	7.425	82.601	43.310	1.00	14.35	H	C
ATOM	3984	CB	GLD	H	302	8.287	82.089	42.143	1.00	12.93	H	C
ATOM	3985	CG	GLD	H	302	9.638	81.579	42.619	1.00	15.67	H	C
ATOM	3986	CD	GLD	H	302	9.448	80.386	43.597	1.00	14.81	H	C
ATOM	3987	OE1	GLD	H	302	8.878	79.354	43.166	1.00	15.24	H	O
ATOM	3988	OE2	GLD	H	302	9.825	80.506	44.780	1.00	14.34	H	O
ATOM	3989	C	GLD	H	302	6.027	82.912	42.821	1.00	13.03	H	C
ATOM	3990	O	GLD	H	302	5.676	84.098	42.749	1.00	11.51	H	O
ATOM	3991	O1	GLD	H	302	5.308	81.938	42.528	1.00	15.43	H	O
ATOM	4058	OH2	TIP	S	1	26.694	70.185	39.535	1.00	10.43	S	O
ATOM	4059	OH2	TIP	S	2	26.903	61.775	37.433	1.00	10.86	S	O
ATOM	4060	OH2	TIP	S	3	35.118	64.928	45.661	1.00	9.77	S	O
ATOM	4061	OH2	TIP	S	4	3.740	88.714	42.243	1.00	12.17	S	O
ATOM	4062	OH2	TIP	S	5	-3.817	87.331	48.367	1.00	15.62	S	O
ATOM	4063	OH2	TIP	S	6	16.515	80.411	54.861	1.00	15.64	S	O
ATOM	4064	OH2	TIP	S	7	26.620	62.820	41.255	1.00	10.32	S	O
ATOM	4065	OH2	TIP	S	8	3.173	81.112	41.277	1.00	12.87	S	O
ATOM	4066	OH2	TIP	S	9	-5.009	77.145	39.859	1.00	14.54	S	O
ATOM	4067	OH2	TIP	S	10	17.072	78.274	43.100	1.00	15.49	S	O
ATOM	4068	OH2	TIP	S	11	11.094	82.014	54.953	1.00	13.66	S	O
ATOM	4069	OH2	TIP	S	12	23.114	78.487	54.347	1.00	14.98	S	O
ATOM	4070	OH2	TIP	S	13	20.046	86.513	47.218	1.00	13.55	S	O
ATOM	4071	OH2	TIP	S	14	2.655	89.017	38.291	1.00	15.07	S	O
ATOM	4072	OH2	TIP	S	15	9.228	70.350	55.121	1.00	12.46	S	O
ATOM	4073	OH2	TIP	S	16	16.739	84.862	44.381	1.00	12.76	S	O
ATOM	4074	OH2	TIP	S	17	25.567	61.078	39.581	1.00	14.41	S	O
ATOM	4075	OH2	TIP	S	18	37.252	56.626	40.690	1.00	14.19	S	O
ATOM	4076	OH2	TIP	S	19	18.275	89.911	32.191	1.00	17.34	S	O
ATOM	4077	OH2	TIP	S	20	34.008	72.385	38.024	1.00	14.04	S	O
ATOM	4078	OH2	TIP	S	21	-1.688	79.172	55.257	1.00	19.38	S	O

Figure 5SSS

ATOM	4079	OH2 TIP S	22	22.366	80.667	29.821	1.00	24.75	S	O
ATOM	4080	OH2 TIP S	23	12.380	75.091	59.029	1.00	20.05	S	O
ATOM	4081	OH2 TIP S	24	22.730	75.591	37.990	1.00	18.05	S	O
ATOM	4082	OH2 TIP S	25	-4.035	89.431	50.414	1.00	17.74	S	O
ATOM	4083	OH2 TIP S	26	4.573	89.940	39.949	1.00	14.11	S	O
ATOM	4084	OH2 TIP S	27	-1.906	87.737	40.180	1.00	17.43	S	O
ATOM	4085	OH2 TIP S	28	10.589	69.698	44.737	1.00	21.71	S	O
ATOM	4086	OH2 TIP S	29	25.201	95.439	52.148	1.00	16.83	S	O
ATOM	4087	OH2 TIP S	30	-8.367	85.700	23.246	1.00	15.98	S	O
ATOM	4088	OH2 TIP S	31	35.982	63.130	47.769	1.00	15.06	S	O
ATOM	4089	OH2 TIP S	32	21.296	70.481	54.804	1.00	19.30	S	O
ATOM	4090	OH2 TIP S	33	20.570	73.504	39.900	1.00	18.13	S	O
ATOM	4091	OH2 TIP S	34	27.666	49.772	40.587	1.00	14.52	S	O
ATOM	4092	OH2 TIP S	35	9.700	74.285	55.955	1.00	16.17	S	O
ATOM	4093	OH2 TIP S	36	12.186	64.800	48.529	1.00	17.60	S	O
ATOM	4094	OH2 TIP S	37	13.322	82.831	56.421	1.00	13.15	S	O
ATOM	4095	OH2 TIP S	38	34.693	38.751	49.392	1.00	20.67	S	O
ATOM	4096	OH2 TIP S	39	-5.001	91.649	54.454	1.00	20.34	S	O
ATOM	4097	OH2 TIP S	40	15.761	67.824	58.496	1.00	21.39	S	O
ATOM	4098	OH2 TIP S	41	11.148	84.424	43.877	1.00	12.67	S	O
ATOM	4099	OH2 TIP S	42	37.642	61.003	46.856	1.00	17.93	S	O
ATOM	4100	OH2 TIP S	43	-4.373	79.173	41.785	1.00	16.71	S	O
ATOM	4101	OH2 TIP S	44	43.723	52.077	51.584	1.00	18.94	S	O
ATOM	4102	OH2 TIP S	45	20.137	97.010	51.207	1.00	22.61	S	O
ATOM	4103	OH2 TIP S	46	-4.186	94.391	33.354	1.00	24.48	S	O
ATOM	4104	OH2 TIP S	47	10.434	59.744	34.860	1.00	20.09	S	O
ATOM	4105	OH2 TIP S	48	11.296	69.306	47.243	1.00	20.43	S	O
ATOM	4106	OH2 TIP S	49	13.514	84.678	43.033	1.00	17.25	S	O
ATOM	4107	OH2 TIP S	50	27.738	70.677	61.698	1.00	22.46	S	O
ATOM	4108	OH2 TIP S	51	16.289	72.356	55.129	1.00	13.74	S	O
ATOM	4109	OH2 TIP S	52	-4.477	95.904	37.489	1.00	27.31	S	O
ATOM	4110	OH2 TIP S	53	34.164	74.207	35.803	1.00	16.19	S	O
ATOM	4111	OH2 TIP S	54	13.181	73.070	43.734	1.00	17.17	S	O
ATOM	4112	OH2 TIP S	55	-3.958	90.260	57.512	1.00	25.11	S	O
ATOM	4113	OH2 TIP S	56	30.703	42.485	54.038	1.00	21.11	S	O
ATOM	4114	OH2 TIP S	57	30.922	56.349	27.885	1.00	20.13	S	O
ATOM	4115	OH2 TIP S	58	14.662	74.601	55.720	1.00	22.72	S	O
ATOM	4116	OH2 TIP S	59	38.507	59.138	50.812	1.00	19.14	S	O
ATOM	4117	OH2 TIP S	60	42.816	67.475	28.609	1.00	20.79	S	O
ATOM	4118	OH2 TIP S	61	-6.400	95.465	43.206	1.00	18.25	S	O
ATOM	4119	OH2 TIP S	62	6.561	102.864	47.606	1.00	21.89	S	O
ATOM	4120	OH2 TIP S	63	35.560	76.427	29.271	1.00	20.86	S	O
ATOM	4121	OH2 TIP S	64	5.810	69.019	32.123	1.00	25.31	S	O
ATOM	4122	OH2 TIP S	65	30.127	54.457	33.804	1.00	22.20	S	O
ATOM	4123	OH2 TIP S	66	14.517	98.509	59.915	1.00	20.97	S	O
ATOM	4124	OH2 TIP S	67	20.921	81.728	55.488	1.00	15.12	S	O
ATOM	4125	OH2 TIP S	68	18.125	78.127	55.061	1.00	22.38	S	O
ATOM	4126	OH2 TIP S	69	4.578	106.224	53.414	1.00	23.88	S	O
ATOM	4127	OH2 TIP S	70	-13.259	95.151	42.403	1.00	22.02	S	O
ATOM	4128	OH2 TIP S	71	19.506	66.848	43.948	1.00	14.64	S	O
ATOM	4129	OH2 TIP S	72	20.492	58.168	29.357	1.00	24.23	S	O
ATOM	4130	OH2 TIP S	73	14.362	66.682	45.311	1.00	21.95	S	O
ATOM	4131	OH2 TIP S	74	37.948	64.500	49.199	1.00	22.89	S	O
ATOM	4132	OH2 TIP S	75	22.382	83.107	46.881	1.00	21.36	S	O
ATOM	4133	OH2 TIP S	76	2.257	71.707	33.743	1.00	22.26	S	O
ATOM	4134	OH2 TIP S	77	28.562	50.607	60.811	1.00	23.59	S	O
ATOM	4135	OH2 TIP S	78	12.908	55.269	54.605	1.00	22.04	S	O
ATOM	4136	OH2 TIP S	79	23.712	82.581	52.850	1.00	18.46	S	O

Figure 5TTT

ATOM	4137	OH2 TIP S	80	6.000	64.702	50.376	1.00	22.24	S	O
ATOM	4138	OH2 TIP S	81	31.597	63.665	38.013	1.00	16.06	S	O
ATOM	4139	OH2 TIP S	82	3.204	101.393	39.851	1.00	18.09	S	O
ATOM	4140	OH2 TIP S	83	-3.695	88.746	62.013	1.00	24.84	S	O
ATOM	4141	OH2 TIP S	84	17.546	65.110	21.326	1.00	19.55	S	O
ATOM	4142	OH2 TIP S	85	26.824	59.347	62.759	1.00	26.30	S	O
ATOM	4143	OH2 TIP S	86	29.013	78.700	36.194	1.00	29.19	S	O
ATOM	4144	OH2 TIP S	87	-21.912	84.760	37.477	1.00	26.29	S	O
ATOM	4145	OH2 TIP S	88	37.659	49.564	54.905	1.00	21.54	S	O
ATOM	4146	OH2 TIP S	89	15.623	89.654	61.494	1.00	20.60	S	O
ATOM	4147	OH2 TIP S	90	46.913	73.636	27.864	1.00	24.09	S	O
ATOM	4148	OH2 TIP S	91	31.635	68.716	13.795	1.00	26.68	S	O
ATOM	4149	OH2 TIP S	92	8.998	77.444	41.106	1.00	21.52	S	O
ATOM	4150	OH2 TIP S	93	19.563	69.848	56.803	1.00	23.78	S	O
ATOM	4151	OH2 TIP S	94	21.054	77.796	57.903	1.00	20.91	S	O
ATOM	4152	OH2 TIP S	95	39.029	70.195	42.752	1.00	19.43	S	O
ATOM	4153	OH2 TIP S	96	16.357	59.879	28.472	1.00	34.72	S	O
ATOM	4154	OH2 TIP S	97	6.277	85.600	21.656	1.00	18.30	S	O
ATOM	4155	OH2 TIP S	98	24.381	79.010	25.797	1.00	24.45	S	O
ATOM	4156	OH2 TIP S	99	-0.330	73.515	46.326	1.00	21.44	S	O
ATOM	4157	OH2 TIP S	100	19.996	63.469	21.479	1.00	20.07	S	O
ATOM	4158	OH2 TIP S	101	8.484	64.804	37.057	1.00	21.03	S	O
ATOM	4159	OH2 TIP S	102	18.063	76.067	36.689	1.00	20.99	S	O
ATOM	4160	OH2 TIP S	103	13.804	68.104	43.044	1.00	25.16	S	O
ATOM	4161	OH2 TIP S	104	10.019	70.355	50.629	1.00	23.39	S	O
ATOM	4162	OH2 TIP S	105	36.764	63.450	55.390	1.00	19.23	S	O
ATOM	4163	OH2 TIP S	106	-3.017	81.106	52.043	1.00	29.08	S	O
ATOM	4164	OH2 TIP S	107	33.894	73.874	51.602	1.00	22.56	S	O
ATOM	4165	OH2 TIP S	108	-10.562	79.620	30.884	1.00	25.06	S	O
ATOM	4166	OH2 TIP S	109	-3.241	87.887	16.187	1.00	22.20	S	O
ATOM	4167	OH2 TIP S	110	36.320	79.997	40.961	1.00	30.47	S	O
ATOM	4168	OH2 TIP S	111	12.536	71.003	57.233	1.00	20.62	S	O
ATOM	4169	OH2 TIP S	112	-0.943	95.950	34.554	1.00	25.68	S	O
ATOM	4170	OH2 TIP S	113	14.938	45.779	46.539	1.00	32.69	S	O
ATOM	4171	OH2 TIP S	114	44.541	72.750	24.779	1.00	28.57	S	O
ATOM	4172	OH2 TIP S	115	16.028	56.338	61.884	1.00	27.69	S	O
ATOM	4173	OH2 TIP S	116	25.959	84.862	44.510	1.00	22.27	S	O
ATOM	4174	OH2 TIP S	117	11.898	70.641	40.303	1.00	29.38	S	O
ATOM	4175	OH2 TIP S	118	20.005	82.352	45.778	1.00	23.69	S	O
ATOM	4176	OH2 TIP S	119	24.653	82.113	42.509	1.00	26.73	S	O
ATOM	4177	OH2 TIP S	120	39.045	70.244	55.129	1.00	26.86	S	O
ATOM	4178	OH2 TIP S	121	-14.861	94.263	30.815	1.00	25.70	S	O
ATOM	4179	OH2 TIP S	122	28.805	79.348	55.384	1.00	24.42	S	O
ATOM	4180	OH2 TIP S	123	34.409	78.819	35.704	1.00	22.51	S	O
ATOM	4181	OH2 TIP S	124	25.708	95.887	48.431	1.00	22.52	S	O
ATOM	4182	OH2 TIP S	125	20.200	81.715	43.235	1.00	28.28	S	O
ATOM	4183	OH2 TIP S	126	8.358	89.545	27.306	1.00	25.44	S	O
ATOM	4184	OH2 TIP S	127	28.451	42.142	55.370	1.00	32.71	S	O
ATOM	4185	OH2 TIP S	128	-1.140	72.535	35.377	1.00	25.03	S	O
ATOM	4186	OH2 TIP S	129	42.723	73.261	29.197	1.00	26.01	S	O
ATOM	4187	OH2 TIP S	130	0.475	106.754	43.565	1.00	35.60	S	O
ATOM	4188	OH2 TIP S	131	-8.799	81.517	47.238	1.00	30.82	S	O
ATOM	4189	OH2 TIP S	132	18.817	63.647	62.682	1.00	23.39	S	O
ATOM	4190	OH2 TIP S	133	-14.788	83.367	33.703	1.00	22.25	S	O
ATOM	4191	OH2 TIP S	134	28.486	47.289	40.587	1.00	26.04	S	O
ATOM	4192	OH2 TIP S	135	13.709	66.288	58.292	1.00	31.84	S	O
ATOM	4193	OH2 TIP S	136	4.869	72.011	43.934	1.00	21.85	S	O
ATOM	4194	OH2 TIP S	137	-19.103	77.442	35.205	1.00	29.80	S	O

Figure 5UUU

ATOM	4195	OH2 TIP S 138	20.407	79.490	35.831	1.00	35.16	S	O
ATOM	4196	OH2 TIP S 139	10.860	84.010	22.443	1.00	27.02	S	O
ATOM	4197	OH2 TIP S 140	0.151	101.506	60.922	1.00	25.88	S	O
ATOM	4198	OH2 TIP S 141	31.584	47.279	41.254	1.00	23.80	S	O
ATOM	4199	OH2 TIP S 142	38.066	70.701	25.990	1.00	19.24	S	O
ATOM	4200	OH2 TIP S 143	44.977	72.631	31.204	1.00	23.78	S	O
ATOM	4201	OH2 TIP S 144	10.719	65.231	40.054	1.00	26.38	S	O
ATOM	4202	OH2 TIP S 145	7.475	91.297	29.034	1.00	27.02	S	O
ATOM	4203	OH2 TIP S 146	37.874	61.748	52.268	1.00	29.73	S	O
ATOM	4204	OH2 TIP S 147	-5.574	93.894	53.509	1.00	23.66	S	O
ATOM	4205	OH2 TIP S 148	17.820	78.905	36.654	1.00	28.79	S	O
ATOM	4206	OH2 TIP S 149	29.549	83.050	48.881	1.00	26.52	S	O
ATOM	4207	OH2 TIP S 150	-10.366	100.932	54.067	1.00	20.68	S	O
ATOM	4208	OH2 TIP S 151	30.504	64.646	60.794	1.00	28.37	S	O
ATOM	4209	OH2 TIP S 152	49.012	70.756	24.772	1.00	31.55	S	O
ATOM	4210	OH2 TIP S 153	30.846	45.257	57.188	1.00	31.72	S	O
ATOM	4211	OH2 TIP S 154	43.180	59.055	25.923	1.00	26.29	S	O
ATOM	4212	OH2 TIP S 155	22.523	66.585	65.647	1.00	32.96	S	O
ATOM	4213	OH2 TIP S 156	2.253	106.632	56.997	1.00	37.06	S	O
ATOM	4214	OH2 TIP S 157	21.987	90.927	36.214	1.00	24.25	S	O
ATOM	4215	OH2 TIP S 158	24.995	45.779	50.248	1.00	28.19	S	O
ATOM	4216	OH2 TIP S 159	24.701	87.274	52.417	1.00	25.41	S	O
ATOM	4217	OH2 TIP S 160	19.481	54.793	61.669	1.00	24.28	S	O
ATOM	4218	OH2 TIP S 161	5.052	66.267	52.559	1.00	20.50	S	O
ATOM	4219	OH2 TIP S 162	24.083	47.425	48.238	1.00	32.20	S	O
ATOM	4220	OH2 TIP S 163	50.567	67.161	31.028	1.00	21.83	S	O
ATOM	4221	OH2 TIP S 164	15.358	64.805	23.213	1.00	24.49	S	O
ATOM	4222	OH2 TIP S 165	-1.913	91.256	42.961	1.00	21.23	S	O
ATOM	4223	OH2 TIP S 166	32.576	60.552	40.991	1.00	24.61	S	O
ATOM	4224	OH2 TIP S 167	5.829	70.768	57.525	1.00	22.41	S	O
ATOM	4225	OH2 TIP S 168	6.357	83.074	62.946	1.00	20.77	S	O
ATOM	4226	OH2 TIP S 169	28.962	85.053	47.200	1.00	36.42	S	O
ATOM	4227	OH2 TIP S 170	22.828	55.785	37.965	1.00	34.04	S	O
ATOM	4228	OH2 TIP S 171	9.903	109.166	51.388	1.00	29.79	S	O
ATOM	4229	OH2 TIP S 172	6.629	71.093	33.592	1.00	24.39	S	O
ATOM	4230	OH2 TIP S 173	24.428	80.747	55.009	1.00	17.22	S	O
ATOM	4231	OH2 TIP S 174	11.049	67.896	25.243	1.00	28.73	S	O
ATOM	4232	OH2 TIP S 175	26.525	84.672	50.346	1.00	22.59	S	O
ATOM	4233	OH2 TIP S 176	14.485	79.387	59.276	1.00	36.33	S	O
ATOM	4234	OH2 TIP S 178	-8.133	88.350	22.930	1.00	24.98	S	O
ATOM	4235	OH2 TIP S 179	11.008	89.282	26.933	1.00	26.38	S	O
ATOM	4236	OH2 TIP S 180	29.198	77.232	57.047	1.00	28.34	S	O
ATOM	4237	OH2 TIP S 181	42.985	63.495	21.723	1.00	32.93	S	O
ATOM	4238	OH2 TIP S 182	-2.488	92.239	26.844	1.00	31.41	S	O
ATOM	4239	OH2 TIP S 183	38.070	68.391	49.950	1.00	27.44	S	O
ATOM	4240	OH2 TIP S 184	3.026	87.382	17.697	1.00	24.17	S	O
ATOM	4241	OH2 TIP S 185	32.032	45.265	50.288	1.00	26.40	S	O
ATOM	4242	OH2 TIP S 186	39.904	55.447	42.177	1.00	25.49	S	O
ATOM	4243	OH2 TIP S 187	2.867	70.555	28.600	1.00	25.55	S	O
ATOM	4244	OH2 TIP S 188	28.784	77.898	31.205	1.00	27.78	S	O
ATOM	4245	OH2 TIP S 189	6.525	74.751	39.761	1.00	27.53	S	O
ATOM	4246	OH2 TIP S 190	-6.708	81.142	14.878	1.00	30.15	S	O
ATOM	4247	OH2 TIP S 191	23.949	87.249	38.410	1.00	26.94	S	O
ATOM	4248	OH2 TIP S 192	5.279	83.214	19.647	1.00	23.04	S	O
ATOM	4249	OH2 TIP S 193	7.787	93.915	65.832	1.00	34.56	S	O
ATOM	4250	OH2 TIP S 194	40.056	62.665	49.571	1.00	45.56	S	O
ATOM	4251	OH2 TIP S 195	17.005	83.158	42.309	1.00	26.09	S	O
ATOM	4252	OH2 TIP S 196	39.783	52.482	36.066	1.00	43.89	S	O

Figure 5VVV

ATOM	4253	OH2 TIP S 197	21.034	85.408	34.631	1.00	21.18	S	O
ATOM	4254	OH2 TIP S 198	-2.760	93.994	35.518	1.00	32.71	S	O
ATOM	4255	OH2 TIP S 199	-14.876	77.201	34.781	1.00	29.91	S	O
ATOM	4256	OH2 TIP S 200	7.796	94.208	62.630	1.00	34.21	S	O
ATOM	4257	OH2 TIP S 201	-10.407	94.563	54.451	1.00	30.66	S	O
ATOM	4258	OH2 TIP S 202	19.132	85.088	38.251	1.00	26.36	S	O
ATOM	4259	OH2 TIP S 203	46.329	71.427	42.245	1.00	38.45	S	O
ATOM	4260	OH2 TIP S 204	38.151	49.728	42.054	1.00	23.90	S	O
ATOM	4261	OH2 TIP S 205	-16.881	92.357	37.722	1.00	29.19	S	O
ATOM	4262	OH2 TIP S 206	8.018	58.831	39.198	1.00	17.50	S	O
ATOM	4263	OH2 TIP S 207	23.689	77.990	32.612	1.00	37.51	S	O
ATOM	4264	OH2 TIP S 208	30.303	45.065	54.676	1.00	28.16	S	O
ATOM	4265	OH2 TIP S 209	25.161	84.823	52.568	1.00	29.69	S	O
ATOM	4266	OH2 TIP S 210	23.062	78.703	21.684	1.00	26.51	S	O
ATOM	4267	OH2 TIP S 211	26.355	47.512	59.226	1.00	41.38	S	O
ATOM	4268	OH2 TIP S 212	12.364	73.834	56.670	1.00	17.58	S	O
ATOM	4269	OH2 TIP S 213	22.789	101.251	38.634	1.00	36.48	S	O
ATOM	4270	OH2 TIP S 214	30.444	78.274	42.812	1.00	18.27	S	O
ATOM	4271	OH2 TIP S 215	16.714	66.636	43.404	1.00	27.82	S	O
ATOM	4272	OH2 TIP S 216	11.118	110.647	48.883	1.00	41.21	S	O
ATOM	4273	OH2 TIP S 217	11.938	77.223	62.477	1.00	26.78	S	O
ATOM	4274	OH2 TIP S 218	21.348	98.318	46.299	1.00	22.54	S	O
ATOM	4275	OH2 TIP S 219	6.335	90.109	61.055	1.00	30.93	S	O
ATOM	4276	OH2 TIP S 220	16.849	58.092	31.635	1.00	27.78	S	O
ATOM	4277	OH2 TIP S 221	-14.977	98.435	36.110	1.00	29.94	S	O
ATOM	4278	OH2 TIP S 222	32.209	56.644	34.417	1.00	27.61	S	O
ATOM	4279	OH2 TIP S 223	38.616	69.338	19.683	1.00	35.00	S	O
ATOM	4280	OH2 TIP S 224	43.793	66.187	40.980	1.00	28.57	S	O
ATOM	4281	OH2 TIP S 225	25.865	49.291	48.912	1.00	22.19	S	O
ATOM	4282	OH2 TIP S 226	29.493	51.282	39.294	1.00	28.59	S	O
ATOM	4283	OH2 TIP S 227	8.557	68.734	23.715	1.00	32.38	S	O
ATOM	4284	OH2 TIP S 228	35.030	72.215	49.061	1.00	21.47	S	O
ATOM	4285	OH2 TIP S 229	-5.863	84.407	53.693	1.00	32.71	S	O
ATOM	4286	OH2 TIP S 230	8.409	66.822	21.454	1.00	32.17	S	O
ATOM	4287	OH2 TIP S 231	16.090	88.535	25.766	1.00	45.41	S	O
ATOM	4288	OH2 TIP S 232	5.228	66.001	48.372	1.00	33.03	S	O
ATOM	4289	OH2 TIP S 233	22.372	81.334	39.929	1.00	38.56	S	O
ATOM	4290	OH2 TIP S 234	-11.344	82.468	23.312	1.00	32.37	S	O
ATOM	4291	OH2 TIP S 235	-5.663	88.297	52.367	1.00	28.46	S	O
ATOM	4292	OH2 TIP S 236	13.616	74.457	18.786	1.00	42.18	S	O
ATOM	4293	OH2 TIP S 237	25.283	53.133	37.923	1.00	40.56	S	O
ATOM	4294	OH2 TIP S 238	8.026	53.624	54.137	1.00	31.65	S	O
ATOM	4295	OH2 TIP S 239	34.534	62.367	11.800	1.00	31.60	S	O
ATOM	4296	OH2 TIP S 240	1.831	56.099	44.184	1.00	34.48	S	O
ATOM	4297	OH2 TIP S 241	49.497	62.599	26.810	1.00	26.78	S	O
ATOM	4298	OH2 TIP S 242	-4.758	72.368	21.533	1.00	38.11	S	O
ATOM	4299	OH2 TIP S 243	-5.868	83.431	58.623	1.00	34.40	S	O
ATOM	4300	OH2 TIP S 244	29.156	81.797	37.170	1.00	39.60	S	O
ATOM	4301	OH2 TIP S 245	21.609	85.611	37.638	1.00	20.34	S	O
ATOM	4302	OH2 TIP S 246	-4.284	77.490	49.709	1.00	35.30	S	O
ATOM	4303	OH2 TIP S 247	31.807	48.664	61.432	1.00	43.66	S	O
ATOM	4304	OH2 TIP S 248	34.652	80.273	32.759	1.00	35.30	S	O
ATOM	4305	OH2 TIP S 249	-7.767	74.088	33.904	1.00	27.76	S	O
ATOM	4306	OH2 TIP S 250	-0.973	76.943	21.093	1.00	36.81	S	O
ATOM	4307	OH2 TIP S 251	17.520	103.841	50.759	1.00	37.13	S	O
ATOM	4308	OH2 TIP S 252	36.677	59.162	23.943	1.00	39.63	S	O
ATOM	4309	OH2 TIP S 253	-3.985	93.307	65.493	1.00	38.58	S	O
ATOM	4310	OH2 TIP S 254	26.053	53.836	34.851	1.00	37.31	S	O

Figure 5WWW

ATOM	4311	OH2 TIP S 255	-7.010	78.156	28.377	1.00	28.40	S	O
ATOM	4312	OH2 TIP S 256	3.198	69.864	24.836	1.00	24.87	S	O
ATOM	4313	OH2 TIP S 257	-2.729	89.793	59.984	1.00	35.90	S	O
ATOM	4314	OH2 TIP S 259	12.874	62.780	21.486	1.00	40.71	S	O
ATOM	4315	OH2 TIP S 260	34.460	53.900	62.259	1.00	37.85	S	O
ATOM	4316	OH2 TIP S 261	8.524	50.114	40.677	1.00	29.93	S	O
ATOM	4317	OH2 TIP S 262	13.534	51.901	52.802	1.00	35.55	S	O
ATOM	4318	OH2 TIP S 263	-5.651	71.332	27.984	1.00	36.22	S	O
ATOM	4319	OH2 TIP S 264	10.884	74.117	37.648	1.00	23.87	S	O
ATOM	4320	OH2 TIP S 265	1.558	105.085	59.290	1.00	30.99	S	O
ATOM	4321	OH2 TIP S 267	22.855	87.241	54.244	1.00	39.85	S	O
ATOM	4322	OH2 TIP S 268	19.606	84.810	44.816	1.00	16.00	S	O
ATOM	4323	OH2 TIP S 269	10.246	57.810	32.854	1.00	25.86	S	O
ATOM	4324	OH2 TIP S 270	-21.599	79.618	39.328	1.00	38.76	S	O
ATOM	4325	OH2 TIP S 271	35.642	69.502	46.091	1.00	25.61	S	O
ATOM	4326	OH2 TIP S 272	7.124	71.606	39.935	1.00	32.52	S	O
ATOM	4327	OH2 TIP S 274	37.219	53.704	29.589	1.00	30.49	S	O
ATOM	4328	OH2 TIP S 275	15.688	71.656	41.660	1.00	35.47	S	O
ATOM	4329	OH2 TIP S 276	18.771	98.089	33.479	1.00	36.76	S	O
ATOM	4330	OH2 TIP S 277	18.891	96.723	59.037	1.00	34.81	S	O
ATOM	4331	OH2 TIP S 279	20.582	96.155	32.990	1.00	36.72	S	O
ATOM	4332	OH2 TIP S 280	38.382	46.507	54.083	1.00	22.09	S	O
ATOM	4333	OH2 TIP S 284	33.499	78.469	29.422	1.00	42.54	S	O
ATOM	4334	OH2 TIP S 285	43.663	56.107	27.511	1.00	34.42	S	O
ATOM	4335	OH2 TIP S 286	35.122	60.670	20.712	1.00	39.38	S	O
ATOM	4336	OH2 TIP S 287	-1.725	96.233	63.363	1.00	35.97	S	O
ATOM	4337	OH2 TIP S 290	18.717	83.949	40.601	1.00	23.89	S	O
ATOM	4338	OH2 TIP S 291	38.772	45.987	46.680	1.00	36.15	S	O
ATOM	4339	OH2 TIP S 292	20.224	69.382	59.695	1.00	29.64	S	O
ATOM	4340	OH2 TIP S 293	8.282	78.199	63.669	1.00	36.59	S	O
ATOM	4341	OH2 TIP S 294	14.047	63.860	59.319	1.00	44.69	S	O
ATOM	4342	OH2 TIP S 297	-5.817	72.739	40.818	1.00	38.14	S	O
ATOM	4343	OH2 TIP S 298	26.321	64.439	12.786	1.00	45.15	S	O
ATOM	4344	OH2 TIP S 299	-6.944	102.099	43.661	1.00	28.91	S	O
ATOM	4345	OH2 TIP S 300	31.982	51.444	38.891	1.00	26.30	S	O
ATOM	4346	OH2 TIP S 301	22.179	61.349	17.217	1.00	28.54	S	O
ATOM	4347	OH2 TIP S 302	11.846	66.672	46.440	1.00	15.33	S	O
ATOM	4348	OH2 TIP S 303	16.579	61.209	61.822	1.00	25.84	S	O
ATOM	4349	OH2 TIP S 304	9.179	61.102	31.089	1.00	35.18	S	O
ATOM	4350	OH2 TIP S 306	43.337	56.983	38.631	1.00	31.17	S	O
ATOM	4351	OH2 TIP S 307	-4.729	79.060	14.954	1.00	29.45	S	O
ATOM	4352	OH2 TIP S 309	3.264	96.531	34.343	1.00	35.87	S	O
ATOM	4353	OH2 TIP S 310	33.597	56.115	32.020	1.00	38.28	S	O
ATOM	4354	OH2 TIP S 312	21.131	84.199	42.642	1.00	16.36	S	O
ATOM	4355	OH2 TIP S 314	13.289	90.298	22.035	1.00	37.86	S	O
ATOM	4356	OH2 TIP S 315	-21.318	88.597	32.650	1.00	31.68	S	O
ATOM	4357	OH2 TIP S 316	0.324	97.812	61.903	1.00	28.65	S	O
ATOM	4358	OH2 TIP S 317	15.681	48.773	53.561	1.00	32.11	S	O
ATOM	4359	OH2 TIP S 318	6.414	66.203	28.644	1.00	45.39	S	O
ATOM	4360	OH2 TIP S 320	21.877	45.789	57.051	1.00	37.88	S	O
ATOM	4361	OH2 TIP S 325	33.257	76.751	48.828	1.00	36.69	S	O
ATOM	4362	OH2 TIP S 326	-1.477	99.714	39.504	1.00	31.96	S	O
ATOM	4363	OH2 TIP S 327	7.083	107.442	40.232	1.00	34.50	S	O
ATOM	4364	OH2 TIP S 328	19.455	81.284	39.450	1.00	31.13	S	O
ATOM	4365	OH2 TIP S 330	18.928	59.678	27.698	1.00	23.64	S	O
ATOM	4366	OH2 TIP S 333	2.949	68.265	43.594	1.00	46.66	S	O
ATOM	4367	OH2 TIP S 334	-8.138	104.339	45.239	1.00	36.83	S	O
ATOM	4368	OH2 TIP S 336	3.891	58.458	48.159	1.00	40.09	S	O

Figure 5XXX

ATOM	4369	OH2 TIP S 339	-11.491	79.098	22.692	1.00	31.58	S	O
ATOM	4370	OH2 TIP S 342	-3.605	77.350	56.479	1.00	33.40	S	O
ATOM	4371	OH2 TIP S 345	48.945	64.149	23.906	1.00	33.98	S	O
ATOM	4372	OH2 TIP S 348	17.597	50.879	59.000	1.00	46.70	S	O
ATOM	4373	OH2 TIP S 349	-19.548	99.216	33.850	1.00	31.30	S	O
ATOM	4374	OH2 TIP S 350	11.566	66.969	42.047	1.00	25.33	S	O
ATOM	4375	OH2 TIP S 353	24.674	43.379	42.738	1.00	46.49	S	O
ATOM	4376	OH2 TIP S 354	20.654	78.836	55.418	1.00	19.53	S	O
ATOM	4377	OH2 TIP S 357	17.254	91.782	60.031	1.00	23.92	S	O
ATOM	4378	OH2 TIP S 358	9.923	67.047	44.491	1.00	20.59	S	O
ATOM	4379	OH2 TIP S 359	36.952	66.998	45.661	1.00	21.28	S	O
ATOM	4380	OH2 TIP S 360	15.012	70.447	58.501	1.00	20.49	S	O
ATOM	4381	OH2 TIP S 361	38.560	66.828	47.799	1.00	18.16	S	O
ATOM	4382	OH2 TIP S 362	12.567	70.351	43.331	1.00	21.60	S	O
ATOM	4383	OH2 TIP S 363	10.275	70.909	59.173	1.00	20.25	S	O
ATOM	4384	OH2 TIP S 365	-8.636	80.604	29.420	1.00	20.84	S	O
ATOM	4385	OH2 TIP S 366	27.535	82.312	43.508	1.00	25.30	S	O
ATOM	4386	OH2 TIP S 367	17.257	86.397	26.338	1.00	29.08	S	O
ATOM	4387	OH2 TIP S 368	4.358	55.280	44.796	1.00	40.14	S	O
ATOM	4388	OH2 TIP S 369	8.463	83.561	21.334	1.00	22.41	S	O
ATOM	4389	OH2 TIP S 370	-8.086	97.612	37.816	1.00	25.46	S	O
ATOM	4390	OH2 TIP S 371	12.843	74.928	39.116	1.00	31.70	S	O
ATOM	4391	OH2 TIP S 372	8.347	72.232	57.105	1.00	25.70	S	O
ATOM	4392	OH2 TIP S 373	-3.834	109.911	52.412	1.00	25.46	S	O
ATOM	4393	OH2 TIP S 374	38.734	67.042	43.751	1.00	25.21	S	O
ATOM	4394	OH2 TIP S 375	20.952	90.132	33.041	1.00	26.25	S	O
ATOM	4395	OH2 TIP S 376	21.122	98.404	49.083	1.00	21.33	S	O
ATOM	4396	OH2 TIP S 377	-12.795	97.771	42.948	1.00	27.19	S	O
ATOM	4397	OH2 TIP S 378	24.316	79.549	28.534	1.00	25.40	S	O
ATOM	4398	OH2 TIP S 379	27.736	88.375	45.434	1.00	29.24	S	O
ATOM	4399	OH2 TIP S 380	8.225	59.683	36.172	1.00	24.77	S	O
ATOM	4400	OH2 TIP S 381	37.450	53.227	35.003	1.00	32.48	S	O
ATOM	4401	OH2 TIP S 382	-10.586	84.900	22.199	1.00	30.47	S	O
ATOM	4402	OH2 TIP S 383	-15.137	95.854	40.707	1.00	25.76	S	O
ATOM	4403	OH2 TIP S 384	16.777	65.477	62.229	1.00	26.46	S	O
ATOM	4404	OH2 TIP S 385	28.839	86.168	50.617	1.00	33.26	S	O
ATOM	4405	OH2 TIP S 386	17.382	84.892	57.199	1.00	22.87	S	O
ATOM	4406	OH2 TIP S 387	27.000	52.190	62.926	1.00	27.15	S	O
ATOM	4407	OH2 TIP S 388	31.661	79.835	35.615	1.00	28.03	S	O
ATOM	4408	OH2 TIP S 389	-4.676	84.758	48.894	1.00	31.68	S	O
ATOM	4409	OH2 TIP S 390	-5.662	91.557	50.040	1.00	31.19	S	O
ATOM	4410	OH2 TIP S 391	23.487	83.965	44.473	1.00	28.65	S	O
ATOM	4411	OH2 TIP S 392	-6.441	88.875	58.175	1.00	33.33	S	O
ATOM	4412	OH2 TIP S 393	7.603	93.526	36.250	1.00	30.57	S	O
ATOM	4413	OH2 TIP S 394	49.203	72.825	26.301	1.00	24.46	S	O
ATOM	4414	OH2 TIP S 395	28.479	61.371	62.617	1.00	32.12	S	O
ATOM	4415	OH2 TIP S 397	-9.168	83.076	17.253	1.00	25.74	S	O
ATOM	4416	OH2 TIP S 398	16.075	88.965	63.990	1.00	30.49	S	O
ATOM	4417	OH2 TIP S 400	13.310	95.842	67.259	1.00	29.76	S	O
ATOM	4418	OH2 TIP S 401	5.918	66.938	33.592	1.00	31.14	S	O
ATOM	4419	OH2 TIP S 402	0.155	106.248	55.777	1.00	32.60	S	O
ATOM	4420	OH2 TIP S 403	6.110	92.248	62.655	1.00	27.95	S	O
ATOM	4421	OH2 TIP S 404	2.233	103.880	39.763	1.00	31.52	S	O
ATOM	4422	OH2 TIP S 405	25.694	98.715	48.972	1.00	29.93	S	O
ATOM	4423	OH2 TIP S 406	10.674	73.231	60.407	1.00	31.34	S	O
ATOM	4424	OH2 TIP S 409	51.882	66.157	29.120	1.00	26.96	S	O
ATOM	4425	OH2 TIP S 410	6.325	68.647	46.053	1.00	34.29	S	O
ATOM	4426	OH2 TIP S 412	39.391	64.285	54.825	1.00	28.64	S	O

Figure 5YYY

ATOM	4427	OH2 TIP S 413	-2.620	73.079	47.858	1.00	31.55	S	O
ATOM	4428	OH2 TIP S 414	32.879	78.973	43.464	1.00	29.58	S	O
ATOM	4429	OH2 TIP S 415	-15.016	96.572	33.202	1.00	45.53	S	O
ATOM	4430	OH2 TIP S 416	39.377	75.743	32.551	1.00	30.17	S	O
ATOM	4431	OH2 TIP S 417	31.294	47.074	59.585	1.00	32.29	S	O
ATOM	4432	OH2 TIP S 418	20.908	99.085	60.072	1.00	33.84	S	O
ATOM	4433	OH2 TIP S 421	16.227	75.089	58.255	1.00	34.63	S	O
ATOM	4434	OH2 TIP S 423	9.515	68.766	41.162	1.00	31.09	S	O
ATOM	4435	OH2 TIP S 424	24.057	90.877	41.184	1.00	32.57	S	O
ATOM	4436	OH2 TIP S 425	-23.421	85.321	34.874	1.00	40.73	S	O
ATOM	4437	OH2 TIP S 426	-6.600	85.509	60.637	1.00	36.33	S	O
ATOM	4438	OH2 TIP S 429	18.068	74.274	39.152	1.00	28.30	S	O
ATOM	4439	OH2 TIP S 430	0.216	72.088	29.280	1.00	34.77	S	O
ATOM	4440	OH2 TIP S 431	24.237	97.970	52.510	1.00	40.38	S	O
ATOM	4441	OH2 TIP S 433	16.496	61.776	20.380	1.00	31.74	S	O
ATOM	4442	OH2 TIP S 434	23.656	81.140	23.402	1.00	39.14	S	O
ATOM	4443	OH2 TIP S 435	45.512	70.376	23.767	1.00	38.06	S	O
ATOM	4444	OH2 TIP S 436	5.133	69.622	42.446	1.00	33.04	S	O
ATOM	4445	OH2 TIP S 440	23.692	79.457	34.661	1.00	40.65	S	O
ATOM	4446	OH2 TIP S 443	15.889	73.328	39.832	1.00	29.37	S	O
ATOM	4447	OH2 TIP S 444	-8.745	70.532	28.410	1.00	33.62	S	O
ATOM	4448	OH2 TIP S 446	32.260	78.506	13.999	1.00	45.13	S	O
ATOM	4449	OH2 TIP S 448	39.242	48.079	43.803	1.00	33.38	S	O
ATOM	4450	OH2 TIP S 449	34.559	75.768	22.405	1.00	31.84	S	O
ATOM	4451	OH2 TIP S 450	17.344	71.627	57.656	1.00	30.16	S	O
ATOM	4452	OH2 TIP S 453	17.850	55.704	64.074	1.00	41.95	S	O
ATOM	4453	OH2 TIP S 454	12.673	87.630	65.105	1.00	36.77	S	O
ATOM	4454	OH2 TIP S 455	18.393	73.689	58.998	1.00	35.69	S	O
ATOM	4455	OH2 TIP S 457	31.350	80.284	54.849	1.00	32.98	S	O
ATOM	4456	OH2 TIP S 459	31.948	64.117	63.134	1.00	33.16	S	O
ATOM	4457	OH2 TIP S 461	25.883	44.584	58.922	1.00	26.81	S	O
ATOM	4458	OH2 TIP S 462	15.411	75.744	38.970	1.00	38.18	S	O
ATOM	4459	OH2 TIP S 465	-6.694	85.996	51.462	1.00	39.03	S	O
ATOM	4460	OH2 TIP S 467	22.428	74.991	56.119	1.00	48.69	S	O
ATOM	4461	OH2 TIP S 472	7.409	68.343	43.765	1.00	40.63	S	O
ATOM	4462	OH2 TIP S 477	3.696	81.760	15.765	1.00	41.18	S	O
ATOM	4463	OH2 TIP S 478	36.353	75.696	51.865	1.00	40.40	S	O
ATOM	4464	OH2 TIP S 479	45.063	73.009	39.613	1.00	30.28	S	O
ATOM	4465	OH2 TIP S 480	35.167	68.155	64.949	1.00	36.43	S	O
ATOM	4466	OH2 TIP S 481	16.895	81.810	19.179	1.00	26.87	S	O
ATOM	4467	OH2 TIP S 482	9.338	64.581	19.670	1.00	47.45	S	O
ATOM	4468	OH2 TIP S 486	-4.142	97.143	32.076	1.00	40.89	S	O
ATOM	4469	OH2 TIP S 492	8.626	110.626	48.140	1.00	38.81	S	O
ATOM	4470	OH2 TIP S 493	10.344	52.396	54.552	1.00	40.72	S	O
ATOM	4471	OH2 TIP S 504	-6.927	90.936	52.736	1.00	32.58	S	O
ATOM	4472	OH2 TIP S 506	25.842	56.111	26.259	1.00	44.04	S	O
ATOM	4473	OH2 TIP S 511	-18.765	81.021	30.433	1.00	43.07	S	O
ATOM	4474	OH2 TIP S 514	-10.951	95.897	30.634	1.00	35.08	S	O
ATOM	4475	OH2 TIP S 515	18.239	91.555	29.988	1.00	35.01	S	O
ATOM	4476	OH2 TIP S 518	11.487	71.453	37.559	1.00	30.35	S	O
ATOM	4477	OH2 TIP S 519	-5.621	94.181	63.866	1.00	38.29	S	O
ATOM	4478	OH2 TIP S 522	-22.715	82.630	39.313	1.00	37.68	S	O
ATOM	4479	OH2 TIP S 523	13.832	92.634	28.634	1.00	42.35	S	O
ATOM	4480	OH2 TIP S 526	38.684	51.235	34.304	1.00	47.63	S	O
ATOM	4481	OH2 TIP S 528	36.575	81.337	36.652	1.00	30.20	S	O
ATOM	4482	OH2 TIP S 529	19.003	94.626	60.449	1.00	33.39	S	O
ATOM	4483	OH2 TIP S 532	45.213	64.758	44.484	1.00	43.40	S	O
ATOM	4484	OH2 TIP S 548	27.913	76.880	61.466	1.00	39.53	S	O

Figure 5ZZZ

ATOM	4485	OH2 TIP S 550	-7.794	83.071	55.228	1.00	36.58	S	O
ATOM	4486	OH2 TIP S 551	6.856	87.791	20.410	1.00	45.36	S	O
ATOM	4487	OH2 TIP S 553	20.954	56.587	35.076	1.00	46.06	S	O
ATOM	4488	OH2 TIP S 559	6.709	95.476	37.577	1.00	37.67	S	O
ATOM	4489	OH2 TIP S 561	-5.111	70.585	43.095	1.00	36.29	S	O
ATOM	4490	OH2 TIP S 563	33.592	49.188	39.439	1.00	38.90	S	O
ATOM	4491	OH2 TIP S 567	24.268	93.456	38.866	1.00	41.73	S	O
ATOM	4492	OH2 TIP S 568	38.145	71.373	18.079	1.00	45.93	S	O
ATOM	4493	OH2 TIP S 570	10.042	104.897	57.893	1.00	35.94	S	O
ATOM	4494	OH2 TIP S 579	2.980	71.667	46.083	1.00	31.08	S	O
ATOM	4495	OH2 TIP S 588	42.992	48.494	46.292	1.00	42.53	S	O
ATOM	4496	OH2 TIP S 592	7.979	101.256	62.776	1.00	43.56	S	O
ATOM	4497	OH2 TIP S 596	40.729	51.604	40.374	1.00	44.86	S	O
ATOM	4498	OH2 TIP S 608	22.066	82.819	34.739	1.00	44.19	S	O
ATOM	4499	OH2 TIP S 612	23.253	56.890	32.646	1.00	37.91	S	O
ATOM	4500	OH2 TIP S 613	-4.126	71.281	39.257	1.00	40.53	S	O
ATOM	4501	OH2 TIP S 640	21.624	103.517	40.110	1.00	37.27	S	O
ATOM	4502	OH2 TIP S 648	5.614	70.703	52.258	1.00	52.65	S	O
ATOM	4503	OH2 TIP S 650	43.903	58.744	50.765	1.00	33.40	S	O
ATOM	4504	OH2 TIP S 655	-8.816	78.637	48.006	1.00	40.13	S	O
ATOM	4505	OH2 TIP S 656	-5.358	78.170	23.376	1.00	32.77	S	O
ATOM	4506	OH2 TIP S 657	3.160	70.067	31.591	1.00	35.22	S	O
ATOM	4507	OH2 TIP S 658	25.185	73.553	62.291	1.00	39.81	S	O
END									

Figure 6A

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REMARK Created by MOLEMAN V. 991230/7.3 at Tue Dec 10 19:34:52 2002 for kemiti
REMARK MoleMan PDB file
REMARK Created by MOLEMAN V. 961218/7.2.5 at Tue Mar 28 15:09:11 2000 for kemiti
REMARK MoleMan PDB file
REMARK coordinates from restrained individual B-factor refinement
REMARK refinement resolution: 500.0 - 1.86 A
REMARK starting r= 0.2208 free_r= 0.2457
REMARK final   r= 0.2055 free_r= 0.2376
REMARK B rmsd for bonded mainchain atoms= 1.483 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 2.506 target= 2.0
REMARK B rmsd for angle mainchain atoms= 2.042 target= 2.0
REMARK B rmsd for angle sidechain atoms= 3.617 target= 2.5
REMARK wa= 1.64705
REMARK rweight=6.377507E-02
REMARK target= mlf steps= 50
REMARK sg= P2(1)2(1)2(1) a= 61.41 b= 76.31 c= 108.92 alpha= 90 beta= 90 gamma= 90
REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3 : inh.par
REMARK parameter file 4 : gld.par
REMARK molecular structure file: generate_easy.psf
REMARK input coordinates: bgroup.pdb
REMARK reflection file= muri_1.8.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.86
REMARK initial B-factor correction applied to fobs :
REMARK B11= 0.497 B22= 1.667 B33= -2.164
REMARK B12= 0.000 B13= 0.000 B23= 0.000
REMARK B-factor correction applied to coordinate array B: 1.176
REMARK bulk solvent: (Mask) density level= 0.365438 e/A^3, B-factor= 33.2255 A^2
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range: 43743 ( 100.0 %)
REMARK number of unobserved reflections (no entry or |F|=0): 3410 ( 7.8 %)
REMARK number of reflections rejected: 0 ( 0.0 %)
REMARK total number of reflections used: 40333 ( 92.2 %)
REMARK number of reflections in working set: 38313 ( 87.6 %)
REMARK number of reflections in test set: 2020 ( 4.6 %)
REMARK FILENAME="bindividual.pdb"
REMARK DATE:Mar-24-2000 16:16:02 created by user: kemiti
REMARK Written by CNX VERSION:2000
CRYST1 61.410 76.310 108.920 90.00 90.00 P212121 1
ORIGX1 1.000000 0.000000 0.000000 0.000000
ORIGX2 0.000000 1.000000 0.000000 0.000000
ORIGX3 0.000000 0.000000 1.000000 0.000000
SCALE1 0.016284 0.000000 0.000000 0.000000
SCALE2 0.000000 0.013104 0.000000 0.000000
SCALE3 0.000000 0.000000 0.009181 0.000000
ATOM 1 CB MET A 1 30.124 48.907 56.585 1.00 22.42 A C
ATOM 2 CG MET A 1 30.702 50.302 56.333 1.00 25.22 A C
ATOM 3 SD MET A 1 31.489 51.055 57.785 1.00 28.98 A S
ATOM 4 CE MET A 1 32.951 49.983 58.010 1.00 26.14 A C
ATOM 5 C MET A 1 27.890 49.690 57.412 1.00 19.35 A C
ATOM 6 O MET A 1 27.114 49.386 56.503 1.00 20.53 A O
ATOM 7 N MET A 1 28.658 47.421 57.925 1.00 18.28 A N
ATOM 8 CA MET A 1 29.106 48.829 57.729 1.00 20.61 A C
ATOM 9 N LYS A 2 27.729 50.760 58.178 1.00 18.84 A N
ATOM 10 CA LYS A 2 26.605 51.666 58.005 1.00 19.29 A C

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Figure 6B

ATOM	11	CB	LYS	A	2	25.834	51.769	59.316	1.00	18.82	A	C
ATOM	12	CG	LYS	A	2	24.636	52.702	59.295	1.00	20.09	A	C
ATOM	13	CD	LYS	A	2	24.005	52.752	60.674	1.00	22.85	A	C
ATOM	14	CE	LYS	A	2	22.697	53.523	60.676	1.00	22.98	A	C
ATOM	15	NZ	LYS	A	2	22.078	53.501	62.033	1.00	22.51	A	N
ATOM	16	C	LYS	A	2	27.131	53.031	57.588	1.00	17.25	A	C
ATOM	17	O	LYS	A	2	27.980	53.616	58.265	1.00	16.44	A	O
ATOM	18	N	ILE	A	3	26.630	53.533	56.464	1.00	17.70	A	N
ATOM	19	CA	ILE	A	3	27.075	54.824	55.968	1.00	14.65	A	C
ATOM	20	CB	ILE	A	3	28.001	54.647	54.738	1.00	16.82	A	C
ATOM	21	CG2	ILE	A	3	29.214	53.807	55.121	1.00	17.12	A	C
ATOM	22	CG1	ILE	A	3	27.252	53.971	53.593	1.00	17.27	A	C
ATOM	23	CD1	ILE	A	3	26.697	54.929	52.583	1.00	20.09	A	C
ATOM	24	C	ILE	A	3	25.925	55.758	55.617	1.00	14.64	A	C
ATOM	25	O	ILE	A	3	24.752	55.377	55.639	1.00	14.39	A	O
ATOM	26	N	GLY	A	4	26.269	57.001	55.322	1.00	13.89	A	N
ATOM	27	CA	GLY	A	4	25.244	57.956	54.961	1.00	14.96	A	C
ATOM	28	C	GLY	A	4	25.500	58.490	53.569	1.00	13.26	A	C
ATOM	29	O	GLY	A	4	26.634	58.453	53.081	1.00	11.89	A	O
ATOM	30	N	VAL	A	5	24.439	58.954	52.917	1.00	11.22	A	N
ATOM	31	CA	VAL	A	5	24.549	59.541	51.592	1.00	10.79	A	C
ATOM	32	CB	VAL	A	5	23.964	58.625	50.500	1.00	14.07	A	C
ATOM	33	CG1	VAL	A	5	23.918	59.363	49.169	1.00	12.77	A	C
ATOM	34	CG2	VAL	A	5	24.828	57.385	50.352	1.00	12.02	A	C
ATOM	35	C	VAL	A	5	23.771	60.848	51.643	1.00	11.63	A	C
ATOM	36	O	VAL	A	5	22.596	60.872	52.020	1.00	12.22	A	O
ATOM	37	N	PHE	A	6	24.445	61.932	51.287	1.00	11.51	A	N
ATOM	38	CA	PHE	A	6	23.848	63.256	51.302	1.00	13.29	A	C
ATOM	39	CB	PHE	A	6	24.674	64.182	52.203	1.00	13.43	A	C
ATOM	40	CG	PHE	A	6	24.252	65.620	52.143	1.00	14.85	A	C
ATOM	41	CD1	PHE	A	6	22.937	65.981	52.418	1.00	16.29	A	C
ATOM	42	CD2	PHE	A	6	25.164	66.612	51.800	1.00	15.26	A	C
ATOM	43	CE1	PHE	A	6	22.530	67.317	52.350	1.00	17.43	A	C
ATOM	44	CE2	PHE	A	6	24.770	67.954	51.728	1.00	17.55	A	C
ATOM	45	CZ	PHE	A	6	23.450	68.305	52.003	1.00	18.07	A	C
ATOM	46	C	PHE	A	6	23.725	63.887	49.920	1.00	12.87	A	C
ATOM	47	O	PHE	A	6	24.641	63.806	49.102	1.00	14.09	A	O
ATOM	48	N	ASP	A	7	22.583	64.519	49.674	1.00	11.45	A	N
ATOM	49	CA	ASP	A	7	22.331	65.212	48.418	1.00	12.53	A	C
ATOM	50	CB	ASP	A	7	21.749	64.263	47.363	1.00	11.52	A	C
ATOM	51	CG	ASP	A	7	21.491	64.959	46.035	1.00	10.71	A	C
ATOM	52	OD1	ASP	A	7	22.444	65.525	45.457	1.00	12.13	A	O
ATOM	53	OD2	ASP	A	7	20.332	64.944	45.571	1.00	11.62	A	O
ATOM	54	C	ASP	A	7	21.353	66.350	48.670	1.00	10.34	A	C
ATOM	55	O	ASP	A	7	20.714	66.410	49.716	1.00	12.06	A	O
ATOM	56	N	SER	A	8	21.245	67.262	47.713	1.00	12.07	A	N
ATOM	57	CA	SER	A	8	20.330	68.387	47.856	1.00	12.93	A	C
ATOM	58	CB	SER	A	8	20.595	69.417	46.756	1.00	12.10	A	C
ATOM	59	OG	SER	A	8	20.364	68.857	45.474	1.00	10.24	A	O
ATOM	60	C	SER	A	8	18.874	67.909	47.783	1.00	13.34	A	C
ATOM	61	O	SER	A	8	17.957	68.609	48.217	1.00	14.16	A	O
ATOM	62	N	GLY	A	9	18.667	66.709	47.250	1.00	13.06	A	N
ATOM	63	CA	GLY	A	9	17.319	66.182	47.143	1.00	12.56	A	C
ATOM	64	C	GLY	A	9	17.253	64.728	46.721	1.00	13.45	A	C
ATOM	65	O	GLY	A	9	17.886	63.861	47.329	1.00	13.56	A	O
ATOM	66	N	VAL	A	10	16.484	64.460	45.671	1.00	12.87	A	N
ATOM	67	CA	VAL	A	10	16.323	63.104	45.159	1.00	12.62	A	C
ATOM	68	CB	VAL	A	10	14.916	62.935	44.552	1.00	12.47	A	C

Figure 6C

ATOM	69	CG1 VAL A 10	14.715	63.955	43.453	1.00	11.29	A	C
ATOM	70	CG2 VAL A 10	14.720	61.521	44.031	1.00	12.71	A	C
ATOM	71	C VAL A 10	17.372	62.785	44.095	1.00	12.55	A	C
ATOM	72	O VAL A 10	17.586	61.624	43.749	1.00	11.19	A	O
ATOM	73	N GLY A 11	18.020	63.823	43.575	1.00	12.78	A	N
ATOM	74	CA GLY A 11	19.032	63.623	42.548	1.00	10.57	A	C
ATOM	75	C GLY A 11	20.039	62.536	42.884	1.00	12.63	A	C
ATOM	76	O GLY A 11	20.376	61.696	42.035	1.00	12.33	A	O
ATOM	77	N GLY A 12	20.514	62.560	44.126	1.00	12.27	A	N
ATOM	78	CA GLY A 12	21.488	61.589	44.597	1.00	13.34	A	C
ATOM	79	C GLY A 12	21.125	60.142	44.331	1.00	12.55	A	C
ATOM	80	O GLY A 12	21.963	59.252	44.496	1.00	12.07	A	O
ATOM	81	N PHE A 13	19.877	59.894	43.938	1.00	11.81	A	N
ATOM	82	CA PHE A 13	19.447	58.534	43.619	1.00	12.39	A	C
ATOM	83	CB PHE A 13	18.009	58.515	43.081	1.00	13.67	A	C
ATOM	84	CG PHE A 13	16.947	58.401	44.148	1.00	13.33	A	C
ATOM	85	CD1 PHE A 13	15.671	57.955	43.816	1.00	14.75	A	C
ATOM	86	CD2 PHE A 13	17.215	58.740	45.470	1.00	13.91	A	C
ATOM	87	CE1 PHE A 13	14.667	57.846	44.790	1.00	18.10	A	C
ATOM	88	CE2 PHE A 13	16.221	58.635	46.454	1.00	15.28	A	C
ATOM	89	CZ PHE A 13	14.943	58.186	46.112	1.00	13.91	A	C
ATOM	90	C PHE A 13	20.361	57.940	42.547	1.00	13.92	A	C
ATOM	91	O PHE A 13	20.630	56.737	42.551	1.00	12.12	A	O
ATOM	92	N SER A 14	20.827	58.781	41.625	1.00	13.26	A	N
ATOM	93	CA SER A 14	21.690	58.304	40.547	1.00	13.42	A	C
ATOM	94	CB SER A 14	21.967	59.423	39.525	1.00	13.96	A	C
ATOM	95	OG SER A 14	22.695	60.504	40.071	1.00	12.20	A	O
ATOM	96	C SER A 14	22.992	57.730	41.092	1.00	13.28	A	C
ATOM	97	O SER A 14	23.559	56.805	40.509	1.00	14.54	A	O
ATOM	98	N VAL A 15	23.458	58.270	42.214	1.00	10.88	A	N
ATOM	99	CA VAL A 15	24.674	57.777	42.846	1.00	11.83	A	C
ATOM	100	CB VAL A 15	25.338	58.859	43.730	1.00	11.43	A	C
ATOM	101	CG1 VAL A 15	26.452	58.243	44.580	1.00	10.44	A	C
ATOM	102	CG2 VAL A 15	25.909	59.960	42.849	1.00	11.65	A	C
ATOM	103	C VAL A 15	24.333	56.566	43.709	1.00	13.82	A	C
ATOM	104	O VAL A 15	25.068	55.579	43.727	1.00	13.72	A	O
ATOM	105	N LEU A 16	23.199	56.635	44.400	1.00	13.39	A	N
ATOM	106	CA LEU A 16	22.767	55.546	45.264	1.00	14.00	A	C
ATOM	107	CB LEU A 16	21.479	55.937	45.993	1.00	11.47	A	C
ATOM	108	CG LEU A 16	20.947	54.898	46.991	1.00	14.59	A	C
ATOM	109	CD1 LEU A 16	22.049	54.511	47.980	1.00	13.56	A	C
ATOM	110	CD2 LEU A 16	19.743	55.477	47.733	1.00	10.24	A	C
ATOM	111	C LEU A 16	22.562	54.246	44.486	1.00	14.34	A	C
ATOM	112	O LEU A 16	22.879	53.162	44.980	1.00	13.30	A	O
ATOM	113	N LYS A 17	22.044	54.356	43.267	1.00	14.05	A	N
ATOM	114	CA LYS A 17	21.822	53.176	42.438	1.00	16.52	A	C
ATOM	115	CB LYS A 17	21.229	53.584	41.087	1.00	16.99	A	C
ATOM	116	CG LYS A 17	21.051	52.424	40.114	1.00	21.73	A	C
ATOM	117	CD LYS A 17	20.461	52.893	38.802	1.00	24.05	A	C
ATOM	118	CE LYS A 17	20.298	51.729	37.833	1.00	27.52	A	C
ATOM	119	NZ LYS A 17	19.805	52.178	36.505	1.00	24.97	A	N
ATOM	120	C LYS A 17	23.136	52.423	42.220	1.00	17.90	A	C
ATOM	121	O LYS A 17	23.194	51.193	42.319	1.00	16.07	A	O
ATOM	122	N SER A 18	24.193	53.171	41.931	1.00	16.04	A	N
ATOM	123	CA SER A 18	25.508	52.582	41.691	1.00	17.22	A	C
ATOM	124	CB SER A 18	26.494	53.663	41.248	1.00	16.33	A	C
ATOM	125	OG SER A 18	26.080	54.255	40.034	1.00	15.13	A	O
ATOM	126	C SER A 18	26.033	51.900	42.944	1.00	16.33	A	C

Figure 6D

ATOM	127	O	SER A 18	26.579	50.795	42.885	1.00	14.32	A	O
ATOM	128	N	LEU A 19	25.863	52.577	44.075	1.00	13.38	A	N
ATOM	129	CA	LEU A 19	26.301	52.072	45.367	1.00	14.03	A	C
ATOM	130	CB	LEU A 19	26.009	53.102	46.456	1.00	11.70	A	C
ATOM	131	CG	LEU A 19	26.748	54.435	46.350	1.00	12.66	A	C
ATOM	132	CD1	LEU A 19	26.284	55.365	47.471	1.00	13.24	A	C
ATOM	133	CD2	LEU A 19	28.248	54.185	46.442	1.00	11.34	A	C
ATOM	134	C	LEU A 19	25.605	50.771	45.720	1.00	15.80	A	C
ATOM	135	O	LEU A 19	26.240	49.831	46.195	1.00	14.57	A	O
ATOM	136	N	LEU A 20	24.294	50.727	45.496	1.00	15.82	A	N
ATOM	137	CA	LEU A 20	23.510	49.540	45.793	1.00	18.19	A	C
ATOM	138	CB	LEU A 20	22.026	49.807	45.515	1.00	16.40	A	C
ATOM	139	CG	LEU A 20	21.346	50.798	46.473	1.00	16.62	A	C
ATOM	140	CD1	LEU A 20	19.949	51.156	45.974	1.00	16.53	A	C
ATOM	141	CD2	LEU A 20	21.279	50.176	47.867	1.00	16.65	A	C
ATOM	142	C	LEU A 20	23.983	48.330	44.988	1.00	20.92	A	C
ATOM	143	O	LEU A 20	24.179	47.247	45.538	1.00	20.94	A	O
ATOM	144	N	LYS A 21	24.169	48.511	43.687	1.00	20.60	A	N
ATOM	145	CA	LYS A 21	24.612	47.406	42.847	1.00	22.68	A	C
ATOM	146	CB	LYS A 21	24.656	47.840	41.380	1.00	21.65	A	C
ATOM	147	CG	LYS A 21	24.973	46.699	40.426	1.00	26.15	A	C
ATOM	148	CD	LYS A 21	25.083	47.169	38.988	1.00	29.67	A	C
ATOM	149	CE	LYS A 21	25.506	46.017	38.078	1.00	34.31	A	C
ATOM	150	NZ	LYS A 21	25.776	46.469	36.684	1.00	32.80	A	N
ATOM	151	C	LYS A 21	25.978	46.863	43.263	1.00	21.58	A	C
ATOM	152	O	LYS A 21	26.214	45.654	43.208	1.00	23.12	A	O
ATOM	153	N	ALA A 22	26.868	47.753	43.692	1.00	19.68	A	N
ATOM	154	CA	ALA A 22	28.216	47.360	44.093	1.00	19.96	A	C
ATOM	155	CB	ALA A 22	29.131	48.585	44.080	1.00	14.81	A	C
ATOM	156	C	ALA A 22	28.317	46.635	45.446	1.00	20.35	A	C
ATOM	157	O	ALA A 22	29.402	46.199	45.839	1.00	21.92	A	O
ATOM	158	N	ARG A 23	27.198	46.509	46.154	1.00	20.50	A	N
ATOM	159	CA	ARG A 23	27.187	45.821	47.444	1.00	21.19	A	C
ATOM	160	CB	ARG A 23	27.205	44.307	47.230	1.00	23.64	A	C
ATOM	161	CG	ARG A 23	25.965	43.756	46.553	1.00	24.47	A	C
ATOM	162	CD	ARG A 23	26.093	42.252	46.372	1.00	30.28	A	C
ATOM	163	NE	ARG A 23	26.418	41.582	47.630	1.00	30.56	A	N
ATOM	164	CZ	ARG A 23	26.768	40.302	47.727	1.00	32.70	A	C
ATOM	165	NH1	ARG A 23	26.838	39.549	46.636	1.00	32.50	A	N
ATOM	166	NH2	ARG A 23	27.054	39.776	48.914	1.00	28.66	A	N
ATOM	167	C	ARG A 23	28.379	46.216	48.302	1.00	21.73	A	C
ATOM	168	O	ARG A 23	29.149	45.365	48.759	1.00	20.27	A	O
ATOM	169	N	LEU A 24	28.522	47.512	48.527	1.00	17.52	A	N
ATOM	170	CA	LEU A 24	29.624	48.018	49.317	1.00	21.03	A	C
ATOM	171	CB	LEU A 24	30.080	49.366	48.757	1.00	20.25	A	C
ATOM	172	CG	LEU A 24	30.478	49.366	47.282	1.00	22.97	A	C
ATOM	173	CD1	LEU A 24	30.723	50.797	46.810	1.00	22.12	A	C
ATOM	174	CD2	LEU A 24	31.723	48.510	47.094	1.00	21.35	A	C
ATOM	175	C	LEU A 24	29.239	48.184	50.776	1.00	21.90	A	C
ATOM	176	O	LEU A 24	30.079	48.032	51.663	1.00	23.97	A	O
ATOM	177	N	PHE A 25	27.968	48.483	51.028	1.00	20.73	A	N
ATOM	178	CA	PHE A 25	27.517	48.710	52.396	1.00	21.16	A	C
ATOM	179	CB	PHE A 25	27.290	50.207	52.609	1.00	19.75	A	C
ATOM	180	CG	PHE A 25	28.416	51.062	52.101	1.00	19.70	A	C
ATOM	181	CD1	PHE A 25	28.249	51.854	50.967	1.00	20.65	A	C
ATOM	182	CD2	PHE A 25	29.648	51.065	52.748	1.00	19.59	A	C
ATOM	183	CE1	PHE A 25	29.294	52.641	50.483	1.00	20.02	A	C
ATOM	184	CE2	PHE A 25	30.701	51.846	52.276	1.00	20.92	A	C

Figure 6E

ATOM	185	CZ	PHE	A	25	30.522	52.639	51.137	1.00	19.72	A	C
ATOM	186	C	PHE	A	25	26.259	47.940	52.773	1.00	18.19	A	C
ATOM	187	O	PHE	A	25	25.387	47.718	51.945	1.00	20.08	A	O
ATOM	188	N	ASP	A	26	26.174	47.562	54.044	1.00	19.15	A	N
ATOM	189	CA	ASP	A	26	25.049	46.793	54.569	1.00	19.40	A	C
ATOM	190	CB	ASP	A	26	25.524	45.978	55.768	1.00	21.39	A	C
ATOM	191	CG	ASP	A	26	26.764	45.166	55.455	1.00	23.64	A	C
ATOM	192	OD1	ASP	A	26	26.632	44.118	54.794	1.00	23.32	A	O
ATOM	193	OD2	ASP	A	26	27.875	45.587	55.852	1.00	28.55	A	O
ATOM	194	C	ASP	A	26	23.864	47.662	54.978	1.00	18.82	A	C
ATOM	195	O	ASP	A	26	22.727	47.196	55.034	1.00	19.35	A	O
ATOM	196	N	GLU	A	27	24.132	48.926	55.273	1.00	17.90	A	N
ATOM	197	CA	GLU	A	27	23.067	49.840	55.671	1.00	17.07	A	C
ATOM	198	CB	GLU	A	27	22.892	49.826	57.187	1.00	17.71	A	C
ATOM	199	CG	GLU	A	27	21.646	50.550	57.663	1.00	24.75	A	C
ATOM	200	CD	GLU	A	27	21.322	50.279	59.127	1.00	28.18	A	C
ATOM	201	OE1	GLU	A	27	20.326	50.846	59.620	1.00	31.23	A	O
ATOM	202	OE2	GLU	A	27	22.054	49.500	59.782	1.00	27.47	A	O
ATOM	203	C	GLU	A	27	23.393	51.246	55.197	1.00	16.15	A	C
ATOM	204	O	GLU	A	27	24.524	51.723	55.346	1.00	14.85	A	O
ATOM	205	N	ILE	A	28	22.393	51.910	54.633	1.00	14.40	A	N
ATOM	206	CA	ILE	A	28	22.577	53.257	54.118	1.00	12.75	A	C
ATOM	207	CB	ILE	A	28	22.574	53.257	52.582	1.00	13.36	A	C
ATOM	208	CG2	ILE	A	28	22.678	54.689	52.056	1.00	9.46	A	C
ATOM	209	CG1	ILE	A	28	23.736	52.409	52.059	1.00	12.29	A	C
ATOM	210	CD1	ILE	A	28	23.699	52.211	50.552	1.00	16.70	A	C
ATOM	211	C	ILE	A	28	21.477	54.193	54.592	1.00	13.60	A	C
ATOM	212	O	ILE	A	28	20.296	53.854	54.545	1.00	13.62	A	O
ATOM	213	N	ILE	A	29	21.879	55.367	55.059	1.00	12.74	A	N
ATOM	214	CA	ILE	A	29	20.928	56.375	55.507	1.00	14.14	A	C
ATOM	215	CB	ILE	A	29	21.293	56.944	56.893	1.00	13.73	A	C
ATOM	216	CG2	ILE	A	29	20.241	57.957	57.324	1.00	15.30	A	C
ATOM	217	CG1	ILE	A	29	21.398	55.814	57.929	1.00	15.05	A	C
ATOM	218	CD1	ILE	A	29	20.107	55.035	58.145	1.00	14.22	A	C
ATOM	219	C	ILE	A	29	21.039	57.489	54.472	1.00	14.66	A	C
ATOM	220	O	ILE	A	29	22.056	58.183	54.404	1.00	13.06	A	O
ATOM	221	N	TYR	A	30	20.007	57.629	53.648	1.00	12.88	A	N
ATOM	222	CA	TYR	A	30	19.987	58.649	52.609	1.00	14.23	A	C
ATOM	223	CB	TYR	A	30	19.221	58.133	51.389	1.00	12.46	A	C
ATOM	224	CG	TYR	A	30	19.221	59.075	50.205	1.00	15.02	A	C
ATOM	225	CD1	TYR	A	30	20.155	58.933	49.178	1.00	12.86	A	C
ATOM	226	CE1	TYR	A	30	20.171	59.803	48.088	1.00	12.85	A	C
ATOM	227	CD2	TYR	A	30	18.298	60.119	50.117	1.00	15.96	A	C
ATOM	228	CE2	TYR	A	30	18.304	60.996	49.034	1.00	15.05	A	C
ATOM	229	CZ	TYR	A	30	19.243	60.831	48.023	1.00	14.12	A	C
ATOM	230	OH	TYR	A	30	19.248	61.681	46.948	1.00	11.65	A	O
ATOM	231	C	TYR	A	30	19.293	59.902	53.139	1.00	15.46	A	C
ATOM	232	O	TYR	A	30	18.211	59.815	53.725	1.00	14.07	A	O
ATOM	233	N	TYR	A	31	19.909	61.062	52.934	1.00	14.03	A	N
ATOM	234	CA	TYR	A	31	19.297	62.312	53.370	1.00	14.37	A	C
ATOM	235	CB	TYR	A	31	20.007	62.882	54.601	1.00	13.42	A	C
ATOM	236	CG	TYR	A	31	19.441	64.216	55.045	1.00	13.73	A	C
ATOM	237	CD1	TYR	A	31	18.150	64.307	55.559	1.00	15.42	A	C
ATOM	238	CE1	TYR	A	31	17.616	65.532	55.962	1.00	18.80	A	C
ATOM	239	CD2	TYR	A	31	20.191	65.389	54.940	1.00	15.22	A	C
ATOM	240	CE2	TYR	A	31	19.665	66.625	55.335	1.00	19.27	A	C
ATOM	241	CZ	TYR	A	31	18.376	66.686	55.847	1.00	20.56	A	C
ATOM	242	OH	TYR	A	31	17.840	67.894	56.250	1.00	21.50	A	O

Figure 6F

ATOM	243	C	TYR A 31	19.321	63.355	52.257	1.00	13.94	A	C
ATOM	244	O	TYR A 31	20.383	63.704	51.743	1.00	12.53	A	O
ATOM	245	N	GLY A 32	18.139	63.836	51.876	1.00	14.52	A	N
ATOM	246	CA	GLY A 32	18.052	64.855	50.846	1.00	11.09	A	C
ATOM	247	C	GLY A 32	17.502	66.137	51.445	1.00	14.21	A	C
ATOM	248	O	GLY A 32	16.474	66.105	52.120	1.00	13.16	A	O
ATOM	249	N	ASP A 33	18.178	67.261	51.217	1.00	11.82	A	N
ATOM	250	CA	ASP A 33	17.728	68.550	51.754	1.00	12.90	A	C
ATOM	251	CB	ASP A 33	18.934	69.474	51.926	1.00	11.25	A	C
ATOM	252	CG	ASP A 33	18.576	70.788	52.587	1.00	11.81	A	C
ATOM	253	OD1	ASP A 33	17.562	70.842	53.309	1.00	14.26	A	O
ATOM	254	OD2	ASP A 33	19.326	71.757	52.394	1.00	11.68	A	O
ATOM	255	C	ASP A 33	16.703	69.145	50.783	1.00	13.65	A	C
ATOM	256	O	ASP A 33	16.824	70.285	50.324	1.00	12.95	A	O
ATOM	257	N	SER A 34	15.693	68.333	50.486	1.00	13.72	A	N
ATOM	258	CA	SER A 34	14.630	68.658	49.543	1.00	14.78	A	C
ATOM	259	CB	SER A 34	13.602	67.527	49.539	1.00	13.92	A	C
ATOM	260	OG	SER A 34	14.230	66.294	49.232	1.00	21.22	A	O
ATOM	261	C	SER A 34	13.914	69.980	49.751	1.00	16.62	A	C
ATOM	262	O	SER A 34	13.379	70.554	48.799	1.00	14.31	A	O
ATOM	263	N	ALA A 35	13.889	70.461	50.990	1.00	13.83	A	N
ATOM	264	CA	ALA A 35	13.216	71.717	51.282	1.00	14.72	A	C
ATOM	265	CB	ALA A 35	13.037	71.875	52.790	1.00	12.61	A	C
ATOM	266	C	ALA A 35	13.982	72.908	50.717	1.00	15.06	A	C
ATOM	267	O	ALA A 35	13.417	73.989	50.538	1.00	17.76	A	O
ATOM	268	N	ARG A 36	15.262	72.713	50.420	1.00	15.20	A	N
ATOM	269	CA	ARG A 36	16.076	73.804	49.902	1.00	15.09	A	C
ATOM	270	CB	ARG A 36	17.175	74.128	50.918	1.00	14.65	A	C
ATOM	271	CG	ARG A 36	16.585	74.462	52.284	1.00	13.95	A	C
ATOM	272	CD	ARG A 36	17.602	75.018	53.255	1.00	15.98	A	C
ATOM	273	NE	ARG A 36	18.579	74.020	53.681	1.00	14.55	A	N
ATOM	274	CZ	ARG A 36	19.333	74.141	54.769	1.00	19.35	A	C
ATOM	275	NH1	ARG A 36	19.217	75.221	55.537	1.00	16.64	A	N
ATOM	276	NH2	ARG A 36	20.201	73.187	55.093	1.00	16.02	A	N
ATOM	277	C	ARG A 36	16.668	73.578	48.511	1.00	15.81	A	C
ATOM	278	O	ARG A 36	17.422	74.409	48.002	1.00	15.67	A	O
ATOM	279	N	VAL A 37	16.319	72.461	47.888	1.00	15.48	A	N
ATOM	280	CA	VAL A 37	16.821	72.168	46.552	1.00	13.76	A	C
ATOM	281	CB	VAL A 37	16.374	70.746	46.115	1.00	14.93	A	C
ATOM	282	CG1	VAL A 37	14.877	70.727	45.851	1.00	14.99	A	C
ATOM	283	CG2	VAL A 37	17.174	70.280	44.898	1.00	14.00	A	C
ATOM	284	C	VAL A 37	16.246	73.243	45.617	1.00	11.66	A	C
ATOM	285	O	VAL A 37	15.112	73.697	45.805	1.00	11.22	A	O
ATOM	286	N	PRO A 38	17.011	73.662	44.596	1.00	12.05	A	N
ATOM	287	CD	PRO A 38	16.485	74.565	43.553	1.00	12.17	A	C
ATOM	288	CA	PRO A 38	18.356	73.214	44.244	1.00	13.67	A	C
ATOM	289	CB	PRO A 38	18.368	73.384	42.736	1.00	14.66	A	C
ATOM	290	CG	PRO A 38	17.655	74.698	42.588	1.00	12.08	A	C
ATOM	291	C	PRO A 38	19.486	74.000	44.898	1.00	15.15	A	C
ATOM	292	O	PRO A 38	19.297	75.129	45.370	1.00	12.96	A	O
ATOM	293	N	TYR A 39	20.664	73.382	44.900	1.00	11.07	A	N
ATOM	294	CA	TYR A 39	21.885	73.974	45.442	1.00	13.74	A	C
ATOM	295	CB	TYR A 39	22.796	72.893	46.040	1.00	11.65	A	C
ATOM	296	CG	TYR A 39	22.461	72.394	47.428	1.00	12.17	A	C
ATOM	297	CD1	TYR A 39	21.229	72.663	48.031	1.00	13.42	A	C
ATOM	298	CE1	TYR A 39	20.932	72.177	49.312	1.00	12.82	A	C
ATOM	299	CD2	TYR A 39	23.387	71.625	48.137	1.00	14.92	A	C
ATOM	300	CE2	TYR A 39	23.103	71.137	49.406	1.00	15.33	A	C

Figure 6G

ATOM	301	CZ	TYR A 39	21.878	71.414	49.992	1.00	13.34	A	C
ATOM	302	OH	TYR A 39	21.624	70.941	51.260	1.00	13.24	A	O
ATOM	303	C	TYR A 39	22.654	74.640	44.300	1.00	11.74	A	C
ATOM	304	O	TYR A 39	23.323	75.652	44.494	1.00	14.92	A	O
ATOM	305	N	GLY A 40	22.551	74.049	43.112	1.00	14.63	A	N
ATOM	306	CA	GLY A 40	23.269	74.529	41.939	1.00	12.47	A	C
ATOM	307	C	GLY A 40	23.196	75.993	41.544	1.00	14.09	A	C
ATOM	308	O	GLY A 40	24.093	76.502	40.871	1.00	12.63	A	O
ATOM	309	N	THR A 41	22.141	76.683	41.952	1.00	13.06	A	N
ATOM	310	CA	THR A 41	22.001	78.086	41.585	1.00	17.35	A	C
ATOM	311	CB	THR A 41	20.552	78.400	41.219	1.00	18.12	A	C
ATOM	312	OG1	THR A 41	19.713	78.078	42.332	1.00	22.00	A	O
ATOM	313	CG2	THR A 41	20.115	77.580	40.009	1.00	22.83	A	C
ATOM	314	C	THR A 41	22.416	79.020	42.712	1.00	16.33	A	C
ATOM	315	O	THR A 41	22.266	80.240	42.600	1.00	17.71	A	O
ATOM	316	N	LYS A 42	22.953	78.460	43.787	1.00	14.75	A	N
ATOM	317	CA	LYS A 42	23.331	79.281	44.922	1.00	13.75	A	C
ATOM	318	CB	LYS A 42	22.653	78.721	46.174	1.00	14.86	A	C
ATOM	319	CG	LYS A 42	21.139	78.899	46.078	1.00	14.53	A	C
ATOM	320	CD	LYS A 42	20.342	77.857	46.842	1.00	14.88	A	C
ATOM	321	CE	LYS A 42	18.898	77.878	46.349	1.00	13.95	A	C
ATOM	322	NZ	LYS A 42	17.995	76.929	47.073	1.00	12.60	A	N
ATOM	323	C	LYS A 42	24.824	79.496	45.119	1.00	16.57	A	C
ATOM	324	O	LYS A 42	25.647	78.943	44.391	1.00	14.82	A	O
ATOM	325	N	ASP A 43	25.157	80.329	46.099	1.00	17.21	A	N
ATOM	326	CA	ASP A 43	26.539	80.689	46.390	1.00	19.06	A	C
ATOM	327	CB	ASP A 43	26.567	82.117	46.932	1.00	20.48	A	C
ATOM	328	CG	ASP A 43	25.808	82.245	48.228	1.00	21.34	A	C
ATOM	329	OD1	ASP A 43	26.458	82.356	49.287	1.00	19.30	A	O
ATOM	330	OD2	ASP A 43	24.557	82.210	48.190	1.00	23.52	A	O
ATOM	331	C	ASP A 43	27.260	79.763	47.371	1.00	19.43	A	C
ATOM	332	O	ASP A 43	26.634	79.034	48.141	1.00	18.30	A	O
ATOM	333	N	PRO A 44	28.604	79.789	47.346	1.00	21.23	A	N
ATOM	334	CD	PRO A 44	29.401	80.567	46.377	1.00	20.65	A	C
ATOM	335	CA	PRO A 44	29.482	78.984	48.202	1.00	20.54	A	C
ATOM	336	CB	PRO A 44	30.866	79.543	47.886	1.00	20.91	A	C
ATOM	337	CG	PRO A 44	30.749	79.881	46.440	1.00	20.03	A	C
ATOM	338	C	PRO A 44	29.165	79.051	49.691	1.00	21.08	A	C
ATOM	339	O	PRO A 44	29.078	78.020	50.362	1.00	22.03	A	O
ATOM	340	N	THR A 45	28.999	80.266	50.207	1.00	20.06	A	N
ATOM	341	CA	THR A 45	28.707	80.453	51.622	1.00	19.83	A	C
ATOM	342	CB	THR A 45	28.523	81.953	51.961	1.00	22.19	A	C
ATOM	343	OG1	THR A 45	29.734	82.659	51.667	1.00	22.93	A	O
ATOM	344	CG2	THR A 45	28.180	82.135	53.429	1.00	21.29	A	C
ATOM	345	C	THR A 45	27.453	79.697	52.027	1.00	18.90	A	C
ATOM	346	O	THR A 45	27.448	78.950	53.007	1.00	16.82	A	O
ATOM	347	N	THR A 46	26.386	79.893	51.263	1.00	17.42	A	N
ATOM	348	CA	THR A 46	25.125	79.235	51.546	1.00	17.81	A	C
ATOM	349	CB	THR A 46	24.039	79.671	50.542	1.00	16.98	A	C
ATOM	350	OG1	THR A 46	23.835	81.087	50.636	1.00	17.53	A	O
ATOM	351	CG2	THR A 46	22.737	78.971	50.839	1.00	19.05	A	C
ATOM	352	C	THR A 46	25.265	77.719	51.484	1.00	17.51	A	C
ATOM	353	O	THR A 46	24.766	77.004	52.355	1.00	18.78	A	O
ATOM	354	N	ILE A 47	25.945	77.236	50.452	1.00	17.91	A	N
ATOM	355	CA	ILE A 47	26.134	75.803	50.265	1.00	20.81	A	C
ATOM	356	CB	ILE A 47	26.822	75.513	48.912	1.00	20.52	A	C
ATOM	357	CG2	ILE A 47	26.934	74.002	48.678	1.00	18.34	A	C
ATOM	358	CG1	ILE A 47	26.004	76.143	47.783	1.00	23.35	A	C

Figure 6H

ATOM	359	CD1 ILE A 47	24.523	75.792	47.826	1.00	23.82	A	C
ATOM	360	C ILE A 47	26.935	75.170	51.398	1.00	19.27	A	C
ATOM	361	O ILE A 47	26.568	74.111	51.905	1.00	21.96	A	O
ATOM	362	N LYS A 48	28.018	75.818	51.805	1.00	21.30	A	N
ATOM	363	CA LYS A 48	28.834	75.292	52.890	1.00	20.85	A	C
ATOM	364	CB LYS A 48	30.032	76.203	53.151	1.00	22.83	A	C
ATOM	365	CG LYS A 48	31.094	76.059	52.091	1.00	27.64	A	C
ATOM	366	CD LYS A 48	32.380	76.794	52.444	1.00	31.38	A	C
ATOM	367	CE LYS A 48	32.246	78.287	52.245	1.00	32.58	A	C
ATOM	368	NZ LYS A 48	33.567	78.966	52.404	1.00	35.58	A	N
ATOM	369	C LYS A 48	28.029	75.101	54.163	1.00	21.38	A	C
ATOM	370	O LYS A 48	28.141	74.061	54.814	1.00	20.76	A	O
ATOM	371	N GLN A 49	27.211	76.091	54.520	1.00	19.20	A	N
ATOM	372	CA GLN A 49	26.395	75.963	55.716	1.00	19.40	A	C
ATOM	373	CB GLN A 49	25.619	77.256	56.005	1.00	19.30	A	C
ATOM	374	CG GLN A 49	24.776	77.203	57.286	1.00	22.44	A	C
ATOM	375	CD GLN A 49	25.581	76.812	58.525	1.00	20.73	A	C
ATOM	376	OE1 GLN A 49	26.740	77.192	58.667	1.00	22.79	A	O
ATOM	377	NE2 GLN A 49	24.958	76.068	59.433	1.00	22.60	A	N
ATOM	378	C GLN A 49	25.423	74.803	55.553	1.00	18.14	A	C
ATOM	379	O GLN A 49	25.159	74.074	56.510	1.00	19.87	A	O
ATOM	380	N PHE A 50	24.882	74.631	54.348	1.00	17.65	A	N
ATOM	381	CA PHE A 50	23.960	73.521	54.112	1.00	17.56	A	C
ATOM	382	CB PHE A 50	23.461	73.510	52.659	1.00	17.20	A	C
ATOM	383	CG PHE A 50	22.478	74.604	52.331	1.00	18.53	A	C
ATOM	384	CD1 PHE A 50	21.961	75.433	53.323	1.00	18.95	A	C
ATOM	385	CD2 PHE A 50	22.041	74.780	51.022	1.00	20.21	A	C
ATOM	386	CE1 PHE A 50	21.023	76.418	53.022	1.00	19.32	A	C
ATOM	387	CE2 PHE A 50	21.101	75.763	50.709	1.00	22.48	A	C
ATOM	388	CZ PHE A 50	20.592	76.583	51.716	1.00	21.15	A	C
ATOM	389	C PHE A 50	24.706	72.217	54.401	1.00	15.70	A	C
ATOM	390	O PHE A 50	24.178	71.311	55.048	1.00	15.38	A	O
ATOM	391	N GLY A 51	25.945	72.143	53.922	1.00	18.19	A	N
ATOM	392	CA GLY A 51	26.760	70.959	54.126	1.00	19.41	A	C
ATOM	393	C GLY A 51	27.006	70.667	55.592	1.00	20.96	A	C
ATOM	394	O GLY A 51	26.964	69.514	56.026	1.00	20.04	A	O
ATOM	395	N LEU A 52	27.261	71.716	56.368	1.00	22.33	A	N
ATOM	396	CA LEU A 52	27.508	71.542	57.791	1.00	22.23	A	C
ATOM	397	CB LEU A 52	27.995	72.855	58.412	1.00	24.46	A	C
ATOM	398	CG LEU A 52	29.385	73.328	57.980	1.00	25.92	A	C
ATOM	399	CD1 LEU A 52	29.734	74.618	58.719	1.00	28.98	A	C
ATOM	400	CD2 LEU A 52	30.423	72.249	58.293	1.00	27.40	A	C
ATOM	401	C LEU A 52	26.246	71.063	58.493	1.00	21.84	A	C
ATOM	402	O LEU A 52	26.294	70.180	59.344	1.00	21.12	A	O
ATOM	403	N GLU A 53	25.107	71.635	58.124	1.00	20.72	A	N
ATOM	404	CA GLU A 53	23.852	71.237	58.736	1.00	20.40	A	C
ATOM	405	CB GLU A 53	22.731	72.185	58.294	1.00	21.74	A	C
ATOM	406	CG GLU A 53	22.655	73.438	59.159	1.00	21.95	A	C
ATOM	407	CD GLU A 53	21.839	74.551	58.536	1.00	23.86	A	C
ATOM	408	OE1 GLU A 53	20.797	74.260	57.906	1.00	23.19	A	O
ATOM	409	OE2 GLU A 53	22.238	75.727	58.685	1.00	24.44	A	O
ATOM	410	C GLU A 53	23.514	69.789	58.405	1.00	19.46	A	C
ATOM	411	O GLU A 53	22.813	69.122	59.160	1.00	22.12	A	O
ATOM	412	N ALA A 54	24.022	69.295	57.282	1.00	20.85	A	N
ATOM	413	CA ALA A 54	23.760	67.910	56.905	1.00	18.16	A	C
ATOM	414	CB ALA A 54	24.252	67.647	55.498	1.00	16.88	A	C
ATOM	415	C ALA A 54	24.474	66.997	57.899	1.00	18.85	A	C
ATOM	416	O ALA A 54	23.953	65.944	58.280	1.00	18.10	A	O

Figure 6I

ATOM	417	N	LEU	A	55	25.670	67.408	58.313	1.00	19.45	A	N
ATOM	418	CA	LEU	A	55	26.442	66.639	59.281	1.00	19.66	A	C
ATOM	419	CB	LEU	A	55	27.775	67.329	59.590	1.00	21.26	A	C
ATOM	420	CG	LEU	A	55	28.782	67.408	58.442	1.00	22.31	A	C
ATOM	421	CD1	LEU	A	55	30.070	68.042	58.935	1.00	21.17	A	C
ATOM	422	CD2	LEU	A	55	29.055	66.008	57.898	1.00	22.77	A	C
ATOM	423	C	LEU	A	55	25.626	66.504	60.556	1.00	21.84	A	C
ATOM	424	O	LEU	A	55	25.589	65.437	61.166	1.00	20.58	A	O
ATOM	425	N	ASP	A	56	24.959	67.584	60.953	1.00	21.85	A	N
ATOM	426	CA	ASP	A	56	24.147	67.543	62.157	1.00	22.53	A	C
ATOM	427	CB	ASP	A	56	23.506	68.904	62.437	1.00	25.87	A	C
ATOM	428	CG	ASP	A	56	24.530	69.986	62.715	1.00	29.28	A	C
ATOM	429	OD1	ASP	A	56	25.636	69.651	63.190	1.00	31.33	A	O
ATOM	430	OD2	ASP	A	56	24.226	71.172	62.473	1.00	32.07	A	O
ATOM	431	C	ASP	A	56	23.062	66.492	62.023	1.00	22.75	A	C
ATOM	432	O	ASP	A	56	22.777	65.762	62.974	1.00	22.74	A	O
ATOM	433	N	PHE	A	57	22.459	66.403	60.841	1.00	20.21	A	N
ATOM	434	CA	PHE	A	57	21.404	65.422	60.633	1.00	21.09	A	C
ATOM	435	CB	PHE	A	57	20.831	65.497	59.215	1.00	21.92	A	C
ATOM	436	CG	PHE	A	57	19.915	64.352	58.893	1.00	21.43	A	C
ATOM	437	CD1	PHE	A	57	18.609	64.336	59.370	1.00	22.87	A	C
ATOM	438	CD2	PHE	A	57	20.393	63.233	58.214	1.00	20.64	A	C
ATOM	439	CE1	PHE	A	57	17.792	63.218	59.184	1.00	20.01	A	C
ATOM	440	CE2	PHE	A	57	19.589	62.112	58.024	1.00	21.14	A	C
ATOM	441	CZ	PHE	A	57	18.286	62.104	58.512	1.00	23.52	A	C
ATOM	442	C	PHE	A	57	21.873	63.991	60.864	1.00	18.61	A	C
ATOM	443	O	PHE	A	57	21.148	63.181	61.441	1.00	20.52	A	O
ATOM	444	N	PHE	A	58	23.081	63.679	60.408	1.00	19.51	A	N
ATOM	445	CA	PHE	A	58	23.615	62.324	60.532	1.00	21.64	A	C
ATOM	446	CB	PHE	A	58	24.701	62.097	59.478	1.00	18.15	A	C
ATOM	447	CG	PHE	A	58	24.181	62.018	58.072	1.00	17.07	A	C
ATOM	448	CD1	PHE	A	58	24.380	63.072	57.180	1.00	15.61	A	C
ATOM	449	CD2	PHE	A	58	23.508	60.878	57.628	1.00	16.58	A	C
ATOM	450	CE1	PHE	A	58	23.920	62.993	55.868	1.00	16.17	A	C
ATOM	451	CE2	PHE	A	58	23.044	60.790	56.318	1.00	20.24	A	C
ATOM	452	CZ	PHE	A	58	23.251	61.850	55.436	1.00	14.25	A	C
ATOM	453	C	PHE	A	58	24.164	61.894	61.896	1.00	24.25	A	C
ATOM	454	O	PHE	A	58	24.323	60.697	62.147	1.00	24.91	A	O
ATOM	455	N	LYS	A	59	24.449	62.850	62.774	1.00	26.87	A	N
ATOM	456	CA	LYS	A	59	25.014	62.528	64.087	1.00	28.83	A	C
ATOM	457	CB	LYS	A	59	25.116	63.800	64.931	1.00	31.02	A	C
ATOM	458	CG	LYS	A	59	26.127	64.792	64.374	1.00	33.56	A	C
ATOM	459	CD	LYS	A	59	26.237	66.047	65.221	1.00	37.86	A	C
ATOM	460	CE	LYS	A	59	27.270	67.000	64.632	1.00	38.94	A	C
ATOM	461	NZ	LYS	A	59	27.433	68.240	65.443	1.00	41.75	A	N
ATOM	462	C	LYS	A	59	24.312	61.419	64.879	1.00	28.21	A	C
ATOM	463	O	LYS	A	59	24.973	60.541	65.439	1.00	28.12	A	O
ATOM	464	N	PRO	A	60	22.969	61.437	64.933	1.00	27.85	A	N
ATOM	465	CD	PRO	A	60	22.061	62.472	64.412	1.00	27.44	A	C
ATOM	466	CA	PRO	A	60	22.219	60.409	65.671	1.00	26.21	A	C
ATOM	467	CB	PRO	A	60	20.791	60.962	65.691	1.00	28.29	A	C
ATOM	468	CG	PRO	A	60	20.961	62.446	65.419	1.00	29.74	A	C
ATOM	469	C	PRO	A	60	22.264	59.040	64.994	1.00	25.09	A	C
ATOM	470	O	PRO	A	60	22.116	58.004	65.640	1.00	24.61	A	O
ATOM	471	N	HIS	A	61	22.469	59.045	63.682	1.00	24.30	A	N
ATOM	472	CA	HIS	A	61	22.489	57.815	62.906	1.00	23.28	A	C
ATOM	473	CB	HIS	A	61	22.210	58.148	61.445	1.00	23.75	A	C
ATOM	474	CG	HIS	A	61	20.813	58.616	61.202	1.00	23.81	A	C

Figure 6J

ATOM	475	CD2 HIS A 61	20.307	59.858	61.017	1.00	24.28	A	C
ATOM	476	ND1 HIS A 61	19.738	57.753	61.163	1.00	21.57	A	N
ATOM	477	CE1 HIS A 61	18.631	58.443	60.963	1.00	21.88	A	C
ATOM	478	NE2 HIS A 61	18.948	59.723	60.871	1.00	24.37	A	N
ATOM	479	C HIS A 61	23.754	56.979	63.012	1.00	23.45	A	C
ATOM	480	O HIS A 61	23.812	55.879	62.475	1.00	23.17	A	O
ATOM	481	N GLU A 62	24.752	57.497	63.718	1.00	26.52	A	N
ATOM	482	CA GLU A 62	26.030	56.811	63.892	1.00	27.77	A	C
ATOM	483	CB GLU A 62	25.944	55.818	65.062	1.00	33.97	A	C
ATOM	484	CG GLU A 62	24.861	54.754	64.943	1.00	37.16	A	C
ATOM	485	CD GLU A 62	24.468	54.176	66.292	1.00	40.46	A	C
ATOM	486	OE1 GLU A 62	25.367	53.907	67.117	1.00	41.12	A	O
ATOM	487	OE2 GLU A 62	23.255	53.983	66.525	1.00	42.43	A	O
ATOM	488	C GLU A 62	26.545	56.118	62.626	1.00	26.21	A	C
ATOM	489	O GLU A 62	26.699	54.897	62.579	1.00	26.16	A	O
ATOM	490	N ILE A 63	26.798	56.913	61.591	1.00	22.24	A	N
ATOM	491	CA ILE A 63	27.333	56.385	60.338	1.00	21.10	A	C
ATOM	492	CB ILE A 63	26.904	57.246	59.124	1.00	19.78	A	C
ATOM	493	CG2 ILE A 63	25.416	57.065	58.859	1.00	15.78	A	C
ATOM	494	CG1 ILE A 63	27.224	58.718	59.388	1.00	16.88	A	C
ATOM	495	CD1 ILE A 63	27.000	59.636	58.189	1.00	18.48	A	C
ATOM	496	C ILE A 63	28.853	56.420	60.483	1.00	18.95	A	C
ATOM	497	O ILE A 63	29.385	57.182	61.293	1.00	19.85	A	O
ATOM	498	N GLU A 64	29.553	55.593	59.718	1.00	19.95	A	N
ATOM	499	CA GLU A 64	31.008	55.561	59.804	1.00	19.49	A	C
ATOM	500	CB GLU A 64	31.492	54.118	59.926	1.00	22.43	A	C
ATOM	501	CG GLU A 64	31.139	53.498	61.268	1.00	26.80	A	C
ATOM	502	CD GLU A 64	31.762	52.136	61.452	1.00	29.61	A	C
ATOM	503	OE1 GLU A 64	33.012	52.044	61.421	1.00	31.41	A	O
ATOM	504	OE2 GLU A 64	31.003	51.160	61.623	1.00	29.53	A	O
ATOM	505	C GLU A 64	31.684	56.251	58.630	1.00	17.37	A	C
ATOM	506	O GLU A 64	32.890	56.453	58.631	1.00	16.28	A	O
ATOM	507	N LEU A 65	30.890	56.615	57.632	1.00	18.28	A	N
ATOM	508	CA LEU A 65	31.393	57.308	56.456	1.00	17.15	A	C
ATOM	509	CB LEU A 65	32.035	56.318	55.478	1.00	18.66	A	C
ATOM	510	CG LEU A 65	32.582	56.903	54.169	1.00	21.47	A	C
ATOM	511	CD1 LEU A 65	33.667	55.991	53.603	1.00	23.00	A	C
ATOM	512	CD2 LEU A 65	31.449	57.086	53.167	1.00	22.69	A	C
ATOM	513	C LEU A 65	30.230	58.021	55.786	1.00	16.52	A	C
ATOM	514	O LEU A 65	29.100	57.539	55.813	1.00	14.91	A	O
ATOM	515	N LEU A 66	30.510	59.180	55.204	1.00	14.90	A	N
ATOM	516	CA LEU A 66	29.486	59.946	54.526	1.00	14.23	A	C
ATOM	517	CB LEU A 66	29.264	61.288	55.231	1.00	14.12	A	C
ATOM	518	CG LEU A 66	28.297	62.240	54.514	1.00	14.20	A	C
ATOM	519	CD1 LEU A 66	26.932	61.586	54.415	1.00	14.73	A	C
ATOM	520	CD2 LEU A 66	28.195	63.562	55.262	1.00	13.86	A	C
ATOM	521	C LEU A 66	29.864	60.200	53.077	1.00	14.92	A	C
ATOM	522	O LEU A 66	30.975	60.642	52.773	1.00	14.96	A	O
ATOM	523	N ILE A 67	28.938	59.886	52.181	1.00	13.46	A	N
ATOM	524	CA ILE A 67	29.140	60.124	50.766	1.00	12.96	A	C
ATOM	525	CB ILE A 67	28.641	58.953	49.886	1.00	13.86	A	C
ATOM	526	CG2 ILE A 67	28.617	59.385	48.419	1.00	12.97	A	C
ATOM	527	CG1 ILE A 67	29.541	57.729	50.066	1.00	14.37	A	C
ATOM	528	CD1 ILE A 67	29.105	56.530	49.237	1.00	18.27	A	C
ATOM	529	C ILE A 67	28.314	61.346	50.406	1.00	12.36	A	C
ATOM	530	O ILE A 67	27.116	61.420	50.719	1.00	13.82	A	O
ATOM	531	N VAL A 68	28.964	62.317	49.780	1.00	12.37	A	N
ATOM	532	CA VAL A 68	28.275	63.516	49.342	1.00	12.34	A	C

Figure 6K

ATOM	533	CB VAL A 68	29.160	64.759	49.466	1.00	10.71	A	C
ATOM	534	CG1 VAL A 68	28.413	65.977	48.916	1.00	10.16	A	C
ATOM	535	CG2 VAL A 68	29.525	64.978	50.927	1.00	11.52	A	C
ATOM	536	C VAL A 68	28.002	63.222	47.884	1.00	11.20	A	C
ATOM	537	O VAL A 68	28.885	63.362	47.038	1.00	12.44	A	O
ATOM	538	N ALA A 69	26.785	62.775	47.602	1.00	9.18	A	N
ATOM	539	CA ALA A 69	26.405	62.415	46.244	1.00	10.89	A	C
ATOM	540	CB ALA A 69	25.129	61.581	46.263	1.00	9.29	A	C
ATOM	541	C ALA A 69	26.218	63.631	45.358	1.00	10.34	A	C
ATOM	542	O ALA A 69	26.341	63.546	44.139	1.00	11.20	A	O
ATOM	543	N CYS A 70	25.905	64.760	45.982	1.00	10.65	A	N
ATOM	544	CA CYS A 70	25.692	66.000	45.253	1.00	11.99	A	C
ATOM	545	CB CYS A 70	25.026	67.030	46.167	1.00	13.56	A	C
ATOM	546	SG CYS A 70	24.697	68.605	45.370	1.00	10.79	A	S
ATOM	547	C CYS A 70	27.004	66.560	44.720	1.00	11.25	A	C
ATOM	548	O CYS A 70	27.981	66.708	45.463	1.00	9.23	A	O
ATOM	549	N ASN A 71	27.030	66.867	43.425	1.00	10.81	A	N
ATOM	550	CA ASN A 71	28.228	67.424	42.807	1.00	9.85	A	C
ATOM	551	CB ASN A 71	28.120	67.369	41.285	1.00	7.25	A	C
ATOM	552	CG ASN A 71	28.026	65.959	40.768	1.00	9.24	A	C
ATOM	553	OD1 ASN A 71	26.998	65.298	40.919	1.00	8.82	A	O
ATOM	554	ND2 ASN A 71	29.107	65.478	40.165	1.00	9.13	A	N
ATOM	555	C ASN A 71	28.434	68.866	43.246	1.00	12.09	A	C
ATOM	556	O ASN A 71	29.565	69.321	43.432	1.00	9.50	A	O
ATOM	557	N THR A 72	27.337	69.593	43.399	1.00	10.94	A	N
ATOM	558	CA THR A 72	27.436	70.975	43.834	1.00	10.39	A	C
ATOM	559	CB THR A 72	26.073	71.676	43.779	1.00	9.07	A	C
ATOM	560	OG1 THR A 72	25.599	71.675	42.429	1.00	10.15	A	O
ATOM	561	CG2 THR A 72	26.200	73.122	44.262	1.00	9.53	A	C
ATOM	562	C THR A 72	27.974	71.029	45.259	1.00	11.47	A	C
ATOM	563	O THR A 72	28.882	71.808	45.556	1.00	9.49	A	O
ATOM	564	N ALA A 73	27.415	70.202	46.144	1.00	13.67	A	N
ATOM	565	CA ALA A 73	27.871	70.171	47.531	1.00	13.27	A	C
ATOM	566	CB ALA A 73	26.979	69.251	48.368	1.00	15.12	A	C
ATOM	567	C ALA A 73	29.318	69.691	47.586	1.00	15.74	A	C
ATOM	568	O ALA A 73	30.111	70.160	48.412	1.00	15.99	A	O
ATOM	569	N SER A 74	29.660	68.746	46.714	1.00	13.48	A	N
ATOM	570	CA SER A 74	31.021	68.226	46.677	1.00	13.55	A	C
ATOM	571	CB SER A 74	31.133	67.078	45.666	1.00	10.32	A	C
ATOM	572	OG SER A 74	30.483	65.916	46.148	1.00	14.22	A	O
ATOM	573	C SER A 74	31.994	69.333	46.297	1.00	15.60	A	C
ATOM	574	O SER A 74	33.093	69.439	46.845	1.00	14.18	A	O
ATOM	575	N ALA A 75	31.578	70.169	45.359	1.00	13.93	A	N
ATOM	576	CA ALA A 75	32.422	71.259	44.899	1.00	15.79	A	C
ATOM	577	CB ALA A 75	31.899	71.773	43.560	1.00	16.15	A	C
ATOM	578	C ALA A 75	32.549	72.420	45.886	1.00	17.44	A	C
ATOM	579	O ALA A 75	33.639	72.967	46.063	1.00	18.83	A	O
ATOM	580	N LEU A 76	31.453	72.777	46.548	1.00	15.33	A	N
ATOM	581	CA LEU A 76	31.462	73.920	47.460	1.00	17.71	A	C
ATOM	582	CB LEU A 76	30.236	74.793	47.189	1.00	16.64	A	C
ATOM	583	CG LEU A 76	30.154	75.642	45.917	1.00	19.98	A	C
ATOM	584	CD1 LEU A 76	30.338	74.793	44.681	1.00	15.78	A	C
ATOM	585	CD2 LEU A 76	28.801	76.343	45.886	1.00	19.48	A	C
ATOM	586	C LEU A 76	31.544	73.693	48.967	1.00	18.84	A	C
ATOM	587	O LEU A 76	32.101	74.531	49.685	1.00	17.49	A	O
ATOM	588	N ALA A 77	30.996	72.584	49.456	1.00	16.91	A	N
ATOM	589	CA ALA A 77	30.986	72.338	50.896	1.00	17.45	A	C
ATOM	590	CB ALA A 77	29.546	72.118	51.363	1.00	15.97	A	C

Figure 6L

ATOM	591	C	ALA	A	77	31.862	71.206	51.422	1.00	17.05	A	C
ATOM	592	O	ALA	A	77	32.092	71.120	52.630	1.00	15.31	A	O
ATOM	593	N	LEU	A	78	32.355	70.350	50.533	1.00	17.95	A	N
ATOM	594	CA	LEU	A	78	33.173	69.217	50.950	1.00	18.28	A	C
ATOM	595	CB	LEU	A	78	33.701	68.456	49.726	1.00	17.49	A	C
ATOM	596	CG	LEU	A	78	34.425	67.141	50.053	1.00	18.47	A	C
ATOM	597	CD1	LEU	A	78	33.467	66.196	50.771	1.00	13.07	A	C
ATOM	598	CD2	LEU	A	78	34.949	66.493	48.772	1.00	15.57	A	C
ATOM	599	C	LEU	A	78	34.337	69.572	51.873	1.00	19.44	A	C
ATOM	600	O	LEU	A	78	34.478	68.986	52.944	1.00	17.85	A	O
ATOM	601	N	GLU	A	79	35.173	70.524	51.472	1.00	20.74	A	N
ATOM	602	CA	GLU	A	79	36.310	70.897	52.304	1.00	23.29	A	C
ATOM	603	CB	GLU	A	79	37.112	72.023	51.652	1.00	25.50	A	C
ATOM	604	CG	GLU	A	79	38.332	72.435	52.464	1.00	32.40	A	C
ATOM	605	CD	GLU	A	79	39.248	73.382	51.714	1.00	36.37	A	C
ATOM	606	OE1	GLU	A	79	38.811	74.501	51.377	1.00	38.33	A	O
ATOM	607	OE2	GLU	A	79	40.411	73.002	51.459	1.00	40.30	A	O
ATOM	608	C	GLU	A	79	35.900	71.312	53.716	1.00	22.08	A	C
ATOM	609	O	GLU	A	79	36.512	70.888	54.691	1.00	22.83	A	O
ATOM	610	N	GLU	A	80	34.862	72.132	53.825	1.00	22.05	A	N
ATOM	611	CA	GLU	A	80	34.399	72.591	55.125	1.00	21.68	A	C
ATOM	612	CB	GLU	A	80	33.336	73.675	54.957	1.00	26.13	A	C
ATOM	613	CG	GLU	A	80	33.081	74.457	56.232	1.00	32.22	A	C
ATOM	614	CD	GLU	A	80	34.173	75.479	56.521	1.00	34.38	A	C
ATOM	615	OE1	GLU	A	80	35.371	75.145	56.399	1.00	36.64	A	O
ATOM	616	OE2	GLU	A	80	33.828	76.623	56.878	1.00	38.94	A	O
ATOM	617	C	GLU	A	80	33.823	71.435	55.939	1.00	21.19	A	C
ATOM	618	O	GLU	A	80	34.013	71.359	57.152	1.00	20.49	A	O
ATOM	619	N	MET	A	81	33.116	70.533	55.269	1.00	18.90	A	N
ATOM	620	CA	MET	A	81	32.531	69.389	55.950	1.00	16.84	A	C
ATOM	621	CB	MET	A	81	31.639	68.605	54.992	1.00	14.00	A	C
ATOM	622	CG	MET	A	81	30.375	69.349	54.615	1.00	15.86	A	C
ATOM	623	SD	MET	A	81	29.517	68.583	53.244	1.00	15.74	A	S
ATOM	624	CE	MET	A	81	28.866	67.134	54.019	1.00	14.04	A	C
ATOM	625	C	MET	A	81	33.618	68.474	56.503	1.00	17.31	A	C
ATOM	626	O	MET	A	81	33.539	68.020	57.646	1.00	16.49	A	O
ATOM	627	N	GLN	A	82	34.632	68.216	55.684	1.00	18.90	A	N
ATOM	628	CA	GLN	A	82	35.739	67.351	56.078	1.00	22.12	A	C
ATOM	629	CB	GLN	A	82	36.674	67.125	54.887	1.00	22.92	A	C
ATOM	630	CG	GLN	A	82	36.001	66.442	53.706	1.00	21.03	A	C
ATOM	631	CD	GLN	A	82	36.961	66.158	52.575	1.00	22.15	A	C
ATOM	632	OE1	GLN	A	82	37.725	67.033	52.159	1.00	22.13	A	O
ATOM	633	NE2	GLN	A	82	36.924	64.934	52.061	1.00	20.69	A	N
ATOM	634	C	GLN	A	82	36.516	67.956	57.237	1.00	24.53	A	C
ATOM	635	O	GLN	A	82	37.051	67.239	58.086	1.00	23.68	A	O
ATOM	636	N	LYS	A	83	36.565	69.282	57.271	1.00	26.24	A	N
ATOM	637	CA	LYS	A	83	37.282	69.993	58.317	1.00	30.03	A	C
ATOM	638	CB	LYS	A	83	37.178	71.505	58.092	1.00	30.40	A	C
ATOM	639	CG	LYS	A	83	38.023	72.336	59.041	1.00	34.26	A	C
ATOM	640	CD	LYS	A	83	37.873	73.829	58.756	1.00	38.51	A	C
ATOM	641	CE	LYS	A	83	38.287	74.175	57.329	1.00	42.25	A	C
ATOM	642	NZ	LYS	A	83	38.067	75.619	57.005	1.00	43.57	A	N
ATOM	643	C	LYS	A	83	36.764	69.650	59.708	1.00	30.42	A	C
ATOM	644	O	LYS	A	83	37.551	69.395	60.616	1.00	31.77	A	O
ATOM	645	N	TYR	A	84	35.445	69.624	59.870	1.00	30.72	A	N
ATOM	646	CA	TYR	A	84	34.850	69.341	61.173	1.00	34.49	A	C
ATOM	647	CB	TYR	A	84	33.702	70.322	61.441	1.00	38.58	A	C
ATOM	648	CG	TYR	A	84	34.109	71.781	61.386	1.00	43.85	A	C

Figure 6M

ATOM	649	CD1 TYR A 84	34.172	72.465	60.169	1.00	45.26	A	C
ATOM	650	CE1 TYR A 84	34.575	73.803	60.111	1.00	46.74	A	C
ATOM	651	CD2 TYR A 84	34.460	72.472	62.549	1.00	45.80	A	C
ATOM	652	CE2 TYR A 84	34.865	73.808	62.501	1.00	47.25	A	C
ATOM	653	CZ TYR A 84	34.920	74.467	61.281	1.00	47.45	A	C
ATOM	654	OH TYR A 84	35.321	75.784	61.233	1.00	47.13	A	O
ATOM	655	C TYR A 84	34.349	67.911	61.401	1.00	33.43	A	C
ATOM	656	O TYR A 84	33.973	67.555	62.520	1.00	34.46	A	O
ATOM	657	N SER A 85	34.348	67.088	60.361	1.00	30.46	A	N
ATOM	658	CA SER A 85	33.865	65.721	60.507	1.00	27.21	A	C
ATOM	659	CB SER A 85	33.384	65.192	59.160	1.00	26.99	A	C
ATOM	660	OG SER A 85	33.003	63.836	59.279	1.00	27.59	A	O
ATOM	661	C SER A 85	34.883	64.745	61.088	1.00	25.50	A	C
ATOM	662	O SER A 85	36.059	64.778	60.730	1.00	24.71	A	O
ATOM	663	N LYS A 86	34.415	63.875	61.981	1.00	23.68	A	N
ATOM	664	CA LYS A 86	35.265	62.868	62.609	1.00	23.93	A	C
ATOM	665	CB LYS A 86	34.741	62.509	64.005	1.00	26.65	A	C
ATOM	666	CG LYS A 86	34.774	63.644	65.028	1.00	31.69	A	C
ATOM	667	CD LYS A 86	36.190	63.990	65.491	1.00	34.31	A	C
ATOM	668	CE LYS A 86	37.015	64.657	64.401	1.00	35.72	A	C
ATOM	669	NZ LYS A 86	38.359	65.087	64.902	1.00	41.28	A	N
ATOM	670	C LYS A 86	35.308	61.607	61.752	1.00	22.61	A	C
ATOM	671	O LYS A 86	36.192	60.765	61.914	1.00	23.21	A	O
ATOM	672	N ILE A 87	34.337	61.462	60.857	1.00	19.67	A	N
ATOM	673	CA ILE A 87	34.305	60.302	59.975	1.00	18.68	A	C
ATOM	674	CB ILE A 87	32.896	59.681	59.888	1.00	18.75	A	C
ATOM	675	CG2 ILE A 87	32.510	59.090	61.233	1.00	18.89	A	C
ATOM	676	CG1 ILE A 87	31.887	60.742	59.433	1.00	21.06	A	C
ATOM	677	CD1 ILE A 87	30.508	60.187	59.086	1.00	18.90	A	C
ATOM	678	C ILE A 87	34.720	60.751	58.585	1.00	16.98	A	C
ATOM	679	O ILE A 87	34.614	61.932	58.248	1.00	16.62	A	O
ATOM	680	N PRO A 88	35.219	59.822	57.761	1.00	17.72	A	N
ATOM	681	CD PRO A 88	35.548	58.403	57.992	1.00	17.09	A	C
ATOM	682	CA PRO A 88	35.616	60.247	56.418	1.00	17.99	A	C
ATOM	683	CB PRO A 88	36.319	59.011	55.857	1.00	19.59	A	C
ATOM	684	CG PRO A 88	35.648	57.872	56.587	1.00	18.28	A	C
ATOM	685	C PRO A 88	34.411	60.672	55.577	1.00	19.00	A	C
ATOM	686	O PRO A 88	33.318	60.125	55.711	1.00	17.80	A	O
ATOM	687	N ILE A 89	34.622	61.668	54.726	1.00	19.35	A	N
ATOM	688	CA ILE A 89	33.577	62.163	53.843	1.00	18.35	A	C
ATOM	689	CB ILE A 89	33.171	63.613	54.196	1.00	18.03	A	C
ATOM	690	CG2 ILE A 89	32.157	64.136	53.185	1.00	16.99	A	C
ATOM	691	CG1 ILE A 89	32.562	63.641	55.598	1.00	18.30	A	C
ATOM	692	CD1 ILE A 89	32.020	64.990	56.011	1.00	26.25	A	C
ATOM	693	C ILE A 89	34.134	62.108	52.429	1.00	17.01	A	C
ATOM	694	O ILE A 89	35.206	62.646	52.144	1.00	18.36	A	O
ATOM	695	N VAL A 90	33.406	61.435	51.551	1.00	15.45	A	N
ATOM	696	CA VAL A 90	33.829	61.270	50.173	1.00	14.79	A	C
ATOM	697	CB VAL A 90	33.899	59.779	49.806	1.00	14.33	A	C
ATOM	698	CG1 VAL A 90	34.409	59.605	48.389	1.00	12.10	A	C
ATOM	699	CG2 VAL A 90	34.804	59.055	50.796	1.00	15.51	A	C
ATOM	700	C VAL A 90	32.858	61.957	49.234	1.00	14.94	A	C
ATOM	701	O VAL A 90	31.658	61.702	49.283	1.00	15.20	A	O
ATOM	702	N GLY A 91	33.391	62.830	48.387	1.00	13.93	A	N
ATOM	703	CA GLY A 91	32.570	63.540	47.427	1.00	14.67	A	C
ATOM	704	C GLY A 91	32.606	62.829	46.087	1.00	15.17	A	C
ATOM	705	O GLY A 91	33.262	61.794	45.937	1.00	15.39	A	O
ATOM	706	N VAL A 92	31.921	63.391	45.101	1.00	13.28	A	N

Figure 6N

ATOM	707	CA	VAL A 92	31.871	62.777	43.782	1.00	15.09	A	C
ATOM	708	CB	VAL A 92	30.434	62.762	43.243	1.00	14.78	A	C
ATOM	709	CG1	VAL A 92	29.629	61.703	43.977	1.00	14.03	A	C
ATOM	710	CG2	VAL A 92	29.793	64.135	43.412	1.00	10.70	A	C
ATOM	711	C	VAL A 92	32.770	63.405	42.730	1.00	14.63	A	C
ATOM	712	O	VAL A 92	32.739	63.006	41.567	1.00	17.71	A	O
ATOM	713	N	ILE A 93	33.578	64.378	43.128	1.00	15.55	A	N
ATOM	714	CA	ILE A 93	34.468	65.025	42.176	1.00	16.08	A	C
ATOM	715	CB	ILE A 93	34.684	66.497	42.561	1.00	16.56	A	C
ATOM	716	CG2	ILE A 93	35.653	67.169	41.589	1.00	11.15	A	C
ATOM	717	CG1	ILE A 93	33.329	67.210	42.555	1.00	17.56	A	C
ATOM	718	CD1	ILE A 93	33.385	68.627	43.056	1.00	24.35	A	C
ATOM	719	C	ILE A 93	35.812	64.304	42.032	1.00	15.47	A	C
ATOM	720	O	ILE A 93	36.180	63.904	40.926	1.00	14.93	A	O
ATOM	721	N	GLU A 94	36.536	64.118	43.132	1.00	16.92	A	N
ATOM	722	CA	GLU A 94	37.831	63.446	43.052	1.00	16.92	A	C
ATOM	723	CB	GLU A 94	38.471	63.305	44.434	1.00	20.92	A	C
ATOM	724	CG	GLU A 94	39.894	62.754	44.361	1.00	26.29	A	C
ATOM	725	CD	GLU A 94	40.576	62.678	45.713	1.00	32.62	A	C
ATOM	726	OE1	GLU A 94	40.310	61.723	46.474	1.00	35.02	A	O
ATOM	727	OE2	GLU A 94	41.377	63.588	46.019	1.00	37.91	A	O
ATOM	728	C	GLU A 94	37.745	62.067	42.399	1.00	16.23	A	C
ATOM	729	O	GLU A 94	38.594	61.710	41.578	1.00	12.72	A	O
ATOM	730	N	PRO A 95	36.728	61.263	42.765	1.00	14.67	A	N
ATOM	731	CD	PRO A 95	35.728	61.426	43.835	1.00	11.50	A	C
ATOM	732	CA	PRO A 95	36.612	59.933	42.154	1.00	13.49	A	C
ATOM	733	CB	PRO A 95	35.324	59.385	42.766	1.00	10.50	A	C
ATOM	734	CG	PRO A 95	35.340	59.990	44.132	1.00	13.67	A	C
ATOM	735	C	PRO A 95	36.552	59.995	40.628	1.00	13.36	A	C
ATOM	736	O	PRO A 95	37.111	59.144	39.942	1.00	13.11	A	O
ATOM	737	N	SER A 96	35.868	61.001	40.097	1.00	13.15	A	N
ATOM	738	CA	SER A 96	35.769	61.145	38.652	1.00	13.88	A	C
ATOM	739	CB	SER A 96	34.712	62.190	38.287	1.00	13.27	A	C
ATOM	740	OG	SER A 96	33.415	61.695	38.569	1.00	13.98	A	O
ATOM	741	C	SER A 96	37.121	61.532	38.062	1.00	16.13	A	C
ATOM	742	O	SER A 96	37.482	61.069	36.978	1.00	16.25	A	O
ATOM	743	N	ILE A 97	37.862	62.381	38.774	1.00	16.51	A	N
ATOM	744	CA	ILE A 97	39.181	62.807	38.318	1.00	16.84	A	C
ATOM	745	CB	ILE A 97	39.836	63.786	39.325	1.00	20.72	A	C
ATOM	746	CG2	ILE A 97	41.243	64.165	38.860	1.00	19.14	A	C
ATOM	747	CG1	ILE A 97	38.968	65.039	39.477	1.00	21.89	A	C
ATOM	748	CD1	ILE A 97	38.774	65.827	38.192	1.00	22.65	A	C
ATOM	749	C	ILE A 97	40.070	61.572	38.178	1.00	17.43	A	C
ATOM	750	O	ILE A 97	40.762	61.399	37.171	1.00	16.68	A	O
ATOM	751	N	LEU A 98	40.043	60.716	39.193	1.00	15.65	A	N
ATOM	752	CA	LEU A 98	40.840	59.498	39.182	1.00	18.16	A	C
ATOM	753	CB	LEU A 98	40.749	58.809	40.547	1.00	16.07	A	C
ATOM	754	CG	LEU A 98	41.359	59.641	41.682	1.00	15.84	A	C
ATOM	755	CD1	LEU A 98	41.069	58.980	43.020	1.00	13.47	A	C
ATOM	756	CD2	LEU A 98	42.866	59.788	41.466	1.00	19.12	A	C
ATOM	757	C	LEU A 98	40.374	58.563	38.063	1.00	17.77	A	C
ATOM	758	O	LEU A 98	41.199	57.934	37.389	1.00	16.62	A	O
ATOM	759	N	ALA A 99	39.058	58.485	37.859	1.00	16.23	A	N
ATOM	760	CA	ALA A 99	38.490	57.643	36.807	1.00	18.22	A	C
ATOM	761	CB	ALA A 99	36.962	57.767	36.788	1.00	20.22	A	C
ATOM	762	C	ALA A 99	39.065	58.077	35.462	1.00	17.90	A	C
ATOM	763	O	ALA A 99	39.496	57.246	34.658	1.00	17.01	A	O
ATOM	764	N	ILE A 100	39.067	59.386	35.226	1.00	15.73	A	N

Figure 6O

ATOM	765	CA ILE A 100	39.601	59.939	33.987	1.00	17.26	A	C
ATOM	766	CB ILE A 100	39.378	61.461	33.932	1.00	12.99	A	C
ATOM	767	CG2 ILE A 100	40.158	62.065	32.772	1.00	16.82	A	C
ATOM	768	CG1 ILE A 100	37.880	61.752	33.795	1.00	15.82	A	C
ATOM	769	CD1 ILE A 100	37.516	63.216	33.925	1.00	14.23	A	C
ATOM	770	C ILE A 100	41.099	59.640	33.878	1.00	19.31	A	C
ATOM	771	O ILE A 100	41.594	59.260	32.815	1.00	19.06	A	O
ATOM	772	N LYS A 101	41.812	59.802	34.986	1.00	19.58	A	N
ATOM	773	CA LYS A 101	43.246	59.543	35.019	1.00	22.07	A	C
ATOM	774	CB LYS A 101	43.771	59.741	36.440	1.00	23.70	A	C
ATOM	775	CG LYS A 101	45.273	59.581	36.595	1.00	28.63	A	C
ATOM	776	CD LYS A 101	45.671	59.665	38.062	1.00	33.56	A	C
ATOM	777	CE LYS A 101	47.180	59.570	38.245	1.00	36.39	A	C
ATOM	778	NZ LYS A 101	47.894	60.739	37.649	1.00	38.26	A	N
ATOM	779	C LYS A 101	43.538	58.117	34.551	1.00	23.93	A	C
ATOM	780	O LYS A 101	44.472	57.882	33.780	1.00	23.77	A	O
ATOM	781	N ARG A 102	42.723	57.174	35.010	1.00	23.37	A	N
ATOM	782	CA ARG A 102	42.899	55.775	34.655	1.00	25.65	A	C
ATOM	783	CB ARG A 102	42.096	54.870	35.593	1.00	25.41	A	C
ATOM	784	CG ARG A 102	42.656	54.749	37.000	1.00	28.61	A	C
ATOM	785	CD ARG A 102	41.926	53.657	37.782	1.00	31.73	A	C
ATOM	786	NE ARG A 102	40.486	53.903	37.858	1.00	35.18	A	N
ATOM	787	CZ ARG A 102	39.903	54.713	38.736	1.00	34.42	A	C
ATOM	788	NH1 ARG A 102	38.586	54.876	38.718	1.00	29.69	A	N
ATOM	789	NH2 ARG A 102	40.637	55.344	39.644	1.00	34.01	A	N
ATOM	790	C ARG A 102	42.522	55.437	33.222	1.00	26.39	A	C
ATOM	791	O ARG A 102	43.180	54.611	32.594	1.00	26.86	A	O
ATOM	792	N GLN A 103	41.473	56.061	32.694	1.00	26.77	A	N
ATOM	793	CA GLN A 103	41.067	55.733	31.331	1.00	27.82	A	C
ATOM	794	CB GLN A 103	39.585	55.335	31.306	1.00	28.07	A	C
ATOM	795	CG GLN A 103	38.661	56.210	32.116	1.00	31.66	A	C
ATOM	796	CD GLN A 103	37.378	55.489	32.504	1.00	32.01	A	C
ATOM	797	OE1 GLN A 103	36.672	54.951	31.651	1.00	32.82	A	O
ATOM	798	NE2 GLN A 103	37.071	55.479	33.797	1.00	31.78	A	N
ATOM	799	C GLN A 103	41.363	56.739	30.223	1.00	26.37	A	C
ATOM	800	O GLN A 103	41.024	56.494	29.066	1.00	26.19	A	O
ATOM	801	N VAL A 104	42.003	57.856	30.559	1.00	25.47	A	N
ATOM	802	CA VAL A 104	42.342	58.855	29.550	1.00	24.55	A	C
ATOM	803	CB VAL A 104	41.542	60.154	29.756	1.00	23.42	A	C
ATOM	804	CG1 VAL A 104	41.998	61.208	28.755	1.00	24.85	A	C
ATOM	805	CG2 VAL A 104	40.055	59.876	29.582	1.00	19.58	A	C
ATOM	806	C VAL A 104	43.838	59.174	29.578	1.00	26.78	A	C
ATOM	807	O VAL A 104	44.287	60.043	30.324	1.00	25.34	A	O
ATOM	808	N GLU A 105	44.601	58.460	28.755	1.00	27.15	A	N
ATOM	809	CA GLU A 105	46.045	58.641	28.679	1.00	28.29	A	C
ATOM	810	CB GLU A 105	46.680	57.457	27.947	1.00	33.28	A	C
ATOM	811	CG GLU A 105	46.743	56.183	28.771	1.00	42.55	A	C
ATOM	812	CD GLU A 105	47.669	56.315	29.969	1.00	46.07	A	C
ATOM	813	OE1 GLU A 105	47.467	57.242	30.784	1.00	48.67	A	O
ATOM	814	OE2 GLU A 105	48.600	55.491	30.095	1.00	49.87	A	O
ATOM	815	C GLU A 105	46.461	59.930	27.995	1.00	27.62	A	C
ATOM	816	O GLU A 105	47.395	60.600	28.437	1.00	27.02	A	O
ATOM	817	N ASP A 106	45.769	60.273	26.914	1.00	26.11	A	N
ATOM	818	CA ASP A 106	46.079	61.485	26.164	1.00	25.35	A	C
ATOM	819	CB ASP A 106	45.271	61.526	24.867	1.00	24.40	A	C
ATOM	820	CG ASP A 106	45.714	62.641	23.932	1.00	25.06	A	C
ATOM	821	OD1 ASP A 106	46.302	63.640	24.404	1.00	25.51	A	O
ATOM	822	OD2 ASP A 106	45.458	62.522	22.718	1.00	25.51	A	O

Figure 6P

ATOM	823	C	ASP A 106	45.759	62.722	26.991	1.00	24.65	A	C
ATOM	824	O	ASP A 106	44.593	63.086	27.142	1.00	24.49	A	O
ATOM	825	N	LYS A 107	46.791	63.372	27.519	1.00	25.06	A	N
ATOM	826	CA	LYS A 107	46.593	64.570	28.327	1.00	24.62	A	C
ATOM	827	CB	LYS A 107	47.919	65.024	28.954	1.00	26.00	A	C
ATOM	828	CG	LYS A 107	48.506	64.047	29.972	1.00	28.40	A	C
ATOM	829	CD	LYS A 107	47.527	63.770	31.107	1.00	26.24	A	C
ATOM	830	CE	LYS A 107	48.086	62.757	32.090	1.00	30.72	A	C
ATOM	831	NZ	LYS A 107	47.086	62.398	33.133	1.00	34.82	A	N
ATOM	832	C	LYS A 107	46.000	65.708	27.503	1.00	24.04	A	C
ATOM	833	O	LYS A 107	45.538	66.706	28.054	1.00	25.01	A	O
ATOM	834	N	ASN A 108	46.014	65.555	26.182	1.00	24.07	A	N
ATOM	835	CA	ASN A 108	45.473	66.572	25.286	1.00	23.49	A	C
ATOM	836	CB	ASN A 108	46.390	66.750	24.073	1.00	23.91	A	C
ATOM	837	CG	ASN A 108	47.596	67.601	24.385	1.00	26.66	A	C
ATOM	838	OD1	ASN A 108	47.464	68.780	24.716	1.00	28.22	A	O
ATOM	839	ND2	ASN A 108	48.780	67.011	24.293	1.00	26.45	A	N
ATOM	840	C	ASN A 108	44.059	66.255	24.818	1.00	21.66	A	C
ATOM	841	O	ASN A 108	43.487	66.983	24.009	1.00	22.58	A	O
ATOM	842	N	ALA A 109	43.494	65.164	25.321	1.00	21.45	A	N
ATOM	843	CA	ALA A 109	42.137	64.793	24.946	1.00	20.49	A	C
ATOM	844	CB	ALA A 109	41.755	63.468	25.599	1.00	21.55	A	C
ATOM	845	C	ALA A 109	41.187	65.902	25.402	1.00	18.98	A	C
ATOM	846	O	ALA A 109	41.237	66.346	26.546	1.00	18.14	A	O
ATOM	847	N	PRO A 110	40.315	66.375	24.505	1.00	19.61	A	N
ATOM	848	CD	PRO A 110	40.090	65.997	23.100	1.00	20.78	A	C
ATOM	849	CA	PRO A 110	39.397	67.436	24.919	1.00	18.53	A	C
ATOM	850	CB	PRO A 110	38.762	67.872	23.606	1.00	18.56	A	C
ATOM	851	CG	PRO A 110	38.726	66.596	22.825	1.00	22.18	A	C
ATOM	852	C	PRO A 110	38.380	66.924	25.928	1.00	17.90	A	C
ATOM	853	O	PRO A 110	37.623	65.996	25.650	1.00	18.78	A	O
ATOM	854	N	ILE A 111	38.384	67.526	27.109	1.00	16.88	A	N
ATOM	855	CA	ILE A 111	37.461	67.137	28.165	1.00	16.87	A	C
ATOM	856	CB	ILE A 111	38.197	66.905	29.503	1.00	17.13	A	C
ATOM	857	CG2	ILE A 111	37.195	66.560	30.592	1.00	18.00	A	C
ATOM	858	CG1	ILE A 111	39.225	65.780	29.352	1.00	16.90	A	C
ATOM	859	CD1	ILE A 111	40.127	65.612	30.574	1.00	20.07	A	C
ATOM	860	C	ILE A 111	36.438	68.246	28.360	1.00	14.74	A	C
ATOM	861	O	ILE A 111	36.792	69.422	28.422	1.00	18.10	A	O
ATOM	862	N	LEU A 112	35.170	67.861	28.450	1.00	15.95	A	N
ATOM	863	CA	LEU A 112	34.086	68.814	28.646	1.00	15.98	A	C
ATOM	864	CB	LEU A 112	33.081	68.715	27.498	1.00	13.81	A	C
ATOM	865	CG	LEU A 112	31.755	69.460	27.703	1.00	17.30	A	C
ATOM	866	CD1	LEU A 112	32.000	70.958	27.834	1.00	12.50	A	C
ATOM	867	CD2	LEU A 112	30.832	69.165	26.524	1.00	17.57	A	C
ATOM	868	C	LEU A 112	33.379	68.527	29.966	1.00	15.50	A	C
ATOM	869	O	LEU A 112	32.823	67.445	30.158	1.00	14.25	A	O
ATOM	870	N	VAL A 113	33.394	69.507	30.864	1.00	15.54	A	N
ATOM	871	CA	VAL A 113	32.767	69.361	32.173	1.00	15.01	A	C
ATOM	872	CB	VAL A 113	33.614	70.035	33.278	1.00	16.33	A	C
ATOM	873	CG1	VAL A 113	33.011	69.752	34.653	1.00	12.34	A	C
ATOM	874	CG2	VAL A 113	35.053	69.538	33.208	1.00	15.51	A	C
ATOM	875	C	VAL A 113	31.390	70.006	32.178	1.00	15.47	A	C
ATOM	876	O	VAL A 113	31.257	71.197	31.901	1.00	15.67	A	O
ATOM	877	N	LEU A 114	30.370	69.215	32.494	1.00	14.67	A	N
ATOM	878	CA	LEU A 114	29.000	69.717	32.554	1.00	13.42	A	C
ATOM	879	CB	LEU A 114	28.074	68.836	31.716	1.00	13.87	A	C
ATOM	880	CG	LEU A 114	28.440	68.622	30.247	1.00	15.67	A	C

Figure 6Q

ATOM	881	CD1 LEU A 114	27.349	67.775	29.595	1.00	14.66	A	C
ATOM	882	CD2 LEU A 114	28.583	69.965	29.528	1.00	16.47	A	C
ATOM	883	C LEU A 114	28.536	69.684	34.006	1.00	12.89	A	C
ATOM	884	O LEU A 114	28.772	68.706	34.718	1.00	12.06	A	O
ATOM	885	N GLY A 115	27.873	70.745	34.451	1.00	13.97	A	N
ATOM	886	CA GLY A 115	27.403	70.763	35.822	1.00	12.19	A	C
ATOM	887	C GLY A 115	26.528	71.961	36.088	1.00	13.28	A	C
ATOM	888	O GLY A 115	26.171	72.696	35.160	1.00	14.73	A	O
ATOM	889	N THR A 116	26.167	72.153	37.351	1.00	11.11	A	N
ATOM	890	CA THR A 116	25.348	73.297	37.725	1.00	13.32	A	C
ATOM	891	CB THR A 116	24.866	73.197	39.170	1.00	11.37	A	C
ATOM	892	OG1 THR A 116	26.000	73.180	40.041	1.00	10.70	A	O
ATOM	893	CG2 THR A 116	24.036	71.939	39.367	1.00	10.35	A	C
ATOM	894	C THR A 116	26.195	74.554	37.614	1.00	14.14	A	C
ATOM	895	O THR A 116	27.416	74.482	37.431	1.00	14.71	A	O
ATOM	896	N LYS A 117	25.535	75.701	37.716	1.00	13.99	A	N
ATOM	897	CA LYS A 117	26.204	76.993	37.657	1.00	14.71	A	C
ATOM	898	CB LYS A 117	25.147	78.105	37.777	1.00	15.38	A	C
ATOM	899	CG LYS A 117	25.652	79.472	38.236	1.00	25.83	A	C
ATOM	900	CD LYS A 117	26.685	80.064	37.296	1.00	33.76	A	C
ATOM	901	CE LYS A 117	26.103	80.361	35.920	1.00	38.20	A	C
ATOM	902	NZ LYS A 117	27.105	81.002	35.015	1.00	42.09	A	N
ATOM	903	C LYS A 117	27.233	77.085	38.787	1.00	12.72	A	C
ATOM	904	O LYS A 117	28.356	77.549	38.588	1.00	11.82	A	O
ATOM	905	N ALA A 118	26.854	76.621	39.972	1.00	11.59	A	N
ATOM	906	CA ALA A 118	27.750	76.671	41.120	1.00	11.90	A	C
ATOM	907	CB ALA A 118	26.990	76.297	42.382	1.00	8.77	A	C
ATOM	908	C ALA A 118	28.965	75.758	40.955	1.00	13.39	A	C
ATOM	909	O ALA A 118	30.099	76.161	41.223	1.00	14.34	A	O
ATOM	910	N THR A 119	28.721	74.530	40.508	1.00	13.12	A	N
ATOM	911	CA THR A 119	29.789	73.561	40.316	1.00	12.85	A	C
ATOM	912	CB THR A 119	29.224	72.205	39.840	1.00	13.42	A	C
ATOM	913	OG1 THR A 119	28.398	71.647	40.869	1.00	11.57	A	O
ATOM	914	CG2 THR A 119	30.353	71.235	39.509	1.00	13.13	A	C
ATOM	915	C THR A 119	30.808	74.050	39.298	1.00	12.99	A	C
ATOM	916	O THR A 119	32.016	74.004	39.547	1.00	13.76	A	O
ATOM	917	N ILE A 120	30.323	74.520	38.154	1.00	11.88	A	N
ATOM	918	CA ILE A 120	31.213	75.003	37.103	1.00	13.74	A	C
ATOM	919	CB ILE A 120	30.419	75.310	35.807	1.00	13.41	A	C
ATOM	920	CG2 ILE A 120	31.321	75.980	34.769	1.00	14.31	A	C
ATOM	921	CG1 ILE A 120	29.799	74.012	35.266	1.00	14.49	A	C
ATOM	922	CD1 ILE A 120	30.786	72.862	35.086	1.00	12.48	A	C
ATOM	923	C ILE A 120	31.977	76.246	37.547	1.00	16.55	A	C
ATOM	924	O ILE A 120	33.192	76.337	37.372	1.00	18.38	A	O
ATOM	925	N GLN A 121	31.257	77.200	38.126	1.00	19.17	A	N
ATOM	926	CA GLN A 121	31.861	78.437	38.601	1.00	20.47	A	C
ATOM	927	CB GLN A 121	30.790	79.302	39.275	1.00	22.58	A	C
ATOM	928	CG GLN A 121	31.332	80.406	40.175	1.00	27.23	A	C
ATOM	929	CD GLN A 121	30.251	81.377	40.627	1.00	30.53	A	C
ATOM	930	OE1 GLN A 121	30.383	82.030	41.664	1.00	32.67	A	O
ATOM	931	NE2 GLN A 121	29.185	81.486	39.842	1.00	28.50	A	N
ATOM	932	C GLN A 121	33.012	78.170	39.570	1.00	20.02	A	C
ATOM	933	O GLN A 121	33.979	78.931	39.622	1.00	20.38	A	O
ATOM	934	N SER A 122	32.905	77.082	40.326	1.00	20.65	A	N
ATOM	935	CA SER A 122	33.919	76.709	41.311	1.00	19.01	A	C
ATOM	936	CB SER A 122	33.377	75.609	42.222	1.00	17.57	A	C
ATOM	937	OG SER A 122	33.446	74.356	41.556	1.00	13.49	A	O
ATOM	938	C SER A 122	35.220	76.201	40.686	1.00	18.75	A	C

Figure 6R

ATOM	939	O	SER A 122	36.270	76.232	41.325	1.00	17.22	A	O
ATOM	940	N	ASN A 123	35.136	75.709	39.454	1.00	18.64	A	N
ATOM	941	CA	ASN A 123	36.292	75.159	38.752	1.00	19.81	A	C
ATOM	942	CB	ASN A 123	37.355	76.237	38.538	1.00	23.62	A	C
ATOM	943	CG	ASN A 123	36.915	77.277	37.537	1.00	27.79	A	C
ATOM	944	OD1	ASN A 123	36.375	76.939	36.483	1.00	25.00	A	O
ATOM	945	ND2	ASN A 123	37.141	78.549	37.855	1.00	30.06	A	N
ATOM	946	C	ASN A 123	36.898	73.967	39.487	1.00	18.35	A	C
ATOM	947	O	ASN A 123	38.057	73.606	39.272	1.00	15.93	A	O
ATOM	948	N	ALA A 124	36.101	73.356	40.356	1.00	16.83	A	N
ATOM	949	CA	ALA A 124	36.550	72.197	41.113	1.00	18.02	A	C
ATOM	950	CB	ALA A 124	35.392	71.613	41.914	1.00	17.02	A	C
ATOM	951	C	ALA A 124	37.109	71.148	40.157	1.00	16.55	A	C
ATOM	952	O	ALA A 124	38.195	70.614	40.376	1.00	17.86	A	O
ATOM	953	N	TYR A 125	36.370	70.858	39.091	1.00	15.55	A	N
ATOM	954	CA	TYR A 125	36.817	69.870	38.121	1.00	15.38	A	C
ATOM	955	CB	TYR A 125	35.699	69.549	37.125	1.00	14.36	A	C
ATOM	956	CG	TYR A 125	34.638	68.609	37.662	1.00	15.54	A	C
ATOM	957	CD1	TYR A 125	33.460	69.096	38.226	1.00	13.69	A	C
ATOM	958	CE1	TYR A 125	32.478	68.230	38.701	1.00	16.51	A	C
ATOM	959	CD2	TYR A 125	34.813	67.224	37.591	1.00	15.03	A	C
ATOM	960	CE2	TYR A 125	33.839	66.349	38.064	1.00	16.83	A	C
ATOM	961	CZ	TYR A 125	32.677	66.857	38.614	1.00	15.95	A	C
ATOM	962	OH	TYR A 125	31.718	65.993	39.065	1.00	16.50	A	O
ATOM	963	C	TYR A 125	38.060	70.323	37.361	1.00	15.65	A	C
ATOM	964	O	TYR A 125	39.050	69.596	37.289	1.00	12.18	A	O
ATOM	965	N	ASP A 126	37.998	71.523	36.796	1.00	15.04	A	N
ATOM	966	CA	ASP A 126	39.110	72.080	36.032	1.00	19.15	A	C
ATOM	967	CB	ASP A 126	38.805	73.530	35.642	1.00	18.87	A	C
ATOM	968	CG	ASP A 126	37.532	73.659	34.831	1.00	21.01	A	C
ATOM	969	OD1	ASP A 126	36.489	73.129	35.271	1.00	22.54	A	O
ATOM	970	OD2	ASP A 126	37.570	74.295	33.756	1.00	22.03	A	O
ATOM	971	C	ASP A 126	40.423	72.028	36.814	1.00	19.26	A	C
ATOM	972	O	ASP A 126	41.432	71.519	36.316	1.00	19.31	A	O
ATOM	973	N	ASN A 127	40.406	72.542	38.040	1.00	18.32	A	N
ATOM	974	CA	ASN A 127	41.613	72.549	38.860	1.00	20.39	A	C
ATOM	975	CB	ASN A 127	41.349	73.226	40.206	1.00	19.27	A	C
ATOM	976	CG	ASN A 127	41.031	74.703	40.067	1.00	23.43	A	C
ATOM	977	OD1	ASN A 127	41.553	75.382	39.185	1.00	25.20	A	O
ATOM	978	ND2	ASN A 127	40.185	75.213	40.955	1.00	22.93	A	N
ATOM	979	C	ASN A 127	42.183	71.155	39.096	1.00	19.69	A	C
ATOM	980	O	ASN A 127	43.381	70.926	38.926	1.00	19.93	A	O
ATOM	981	N	ALA A 128	41.325	70.222	39.488	1.00	17.80	A	N
ATOM	982	CA	ALA A 128	41.767	68.862	39.742	1.00	19.25	A	C
ATOM	983	CB	ALA A 128	40.596	68.016	40.218	1.00	17.14	A	C
ATOM	984	C	ALA A 128	42.383	68.253	38.489	1.00	18.99	A	C
ATOM	985	O	ALA A 128	43.434	67.614	38.553	1.00	21.03	A	O
ATOM	986	N	LEU A 129	41.734	68.456	37.347	1.00	18.35	A	N
ATOM	987	CA	LEU A 129	42.237	67.911	36.088	1.00	18.37	A	C
ATOM	988	CB	LEU A 129	41.229	68.157	34.966	1.00	16.99	A	C
ATOM	989	CG	LEU A 129	39.944	67.331	35.044	1.00	17.37	A	C
ATOM	990	CD1	LEU A 129	38.906	67.908	34.101	1.00	18.55	A	C
ATOM	991	CD2	LEU A 129	40.247	65.878	34.690	1.00	19.31	A	C
ATOM	992	C	LEU A 129	43.586	68.512	35.709	1.00	18.69	A	C
ATOM	993	O	LEU A 129	44.486	67.799	35.264	1.00	16.61	A	O
ATOM	994	N	LYS A 130	43.722	69.823	35.881	1.00	20.51	A	N
ATOM	995	CA	LYS A 130	44.974	70.492	35.559	1.00	25.95	A	C
ATOM	996	CB	LYS A 130	44.869	72.002	35.815	1.00	29.56	A	C

Figure 6S

ATOM	997	CG	LYS	A	130	44.065	72.756	34.766	1.00	35.38	A	C
ATOM	998	CD	LYS	A	130	44.211	74.273	34.910	1.00	40.67	A	C
ATOM	999	CE	LYS	A	130	43.491	74.796	36.138	1.00	44.58	A	C
ATOM	1000	NZ	LYS	A	130	42.021	74.573	36.036	1.00	48.51	A	N
ATOM	1001	C	LYS	A	130	46.084	69.899	36.413	1.00	27.20	A	C
ATOM	1002	O	LYS	A	130	47.173	69.607	35.921	1.00	26.83	A	O
ATOM	1003	N	GLN	A	131	45.793	69.711	37.695	1.00	27.73	A	N
ATOM	1004	CA	GLN	A	131	46.768	69.152	38.615	1.00	30.51	A	C
ATOM	1005	CB	GLN	A	131	46.168	69.058	40.017	1.00	34.61	A	C
ATOM	1006	CG	GLN	A	131	47.164	68.658	41.086	1.00	44.44	A	C
ATOM	1007	CD	GLN	A	131	46.499	68.364	42.414	1.00	49.85	A	C
ATOM	1008	OE1	GLN	A	131	45.721	67.415	42.532	1.00	53.57	A	O
ATOM	1009	NE2	GLN	A	131	46.797	69.181	43.423	1.00	52.59	A	N
ATOM	1010	C	GLN	A	131	47.205	67.769	38.139	1.00	29.59	A	C
ATOM	1011	O	GLN	A	131	48.333	67.347	38.389	1.00	27.34	A	O
ATOM	1012	N	GLN	A	132	46.311	67.066	37.452	1.00	27.34	A	N
ATOM	1013	CA	GLN	A	132	46.634	65.738	36.950	1.00	28.50	A	C
ATOM	1014	CB	GLN	A	132	45.382	64.865	36.894	1.00	30.13	A	C
ATOM	1015	CG	GLN	A	132	44.863	64.445	38.253	1.00	32.88	A	C
ATOM	1016	CD	GLN	A	132	45.924	63.758	39.093	1.00	36.97	A	C
ATOM	1017	OE1	GLN	A	132	46.545	62.787	38.659	1.00	36.12	A	O
ATOM	1018	NE2	GLN	A	132	46.136	64.262	40.308	1.00	36.40	A	N
ATOM	1019	C	GLN	A	132	47.297	65.764	35.579	1.00	26.54	A	C
ATOM	1020	O	GLN	A	132	47.465	64.721	34.948	1.00	25.99	A	O
ATOM	1021	N	GLY	A	133	47.653	66.958	35.113	1.00	25.65	A	N
ATOM	1022	CA	GLY	A	133	48.326	67.079	33.833	1.00	25.61	A	C
ATOM	1023	C	GLY	A	133	47.496	67.252	32.575	1.00	26.98	A	C
ATOM	1024	O	GLY	A	133	48.061	67.293	31.479	1.00	25.64	A	O
ATOM	1025	N	TYR	A	134	46.174	67.353	32.696	1.00	25.10	A	N
ATOM	1026	CA	TYR	A	134	45.357	67.526	31.495	1.00	24.59	A	C
ATOM	1027	CB	TYR	A	134	43.902	67.120	31.762	1.00	20.44	A	C
ATOM	1028	CG	TYR	A	134	43.781	65.626	31.951	1.00	19.78	A	C
ATOM	1029	CD1	TYR	A	134	43.870	65.050	33.219	1.00	21.76	A	C
ATOM	1030	CE1	TYR	A	134	43.868	63.664	33.380	1.00	19.57	A	C
ATOM	1031	CD2	TYR	A	134	43.681	64.774	30.850	1.00	19.08	A	C
ATOM	1032	CE2	TYR	A	134	43.682	63.389	31.002	1.00	17.24	A	C
ATOM	1033	CZ	TYR	A	134	43.777	62.842	32.265	1.00	18.47	A	C
ATOM	1034	OH	TYR	A	134	43.792	61.473	32.413	1.00	19.23	A	O
ATOM	1035	C	TYR	A	134	45.461	68.951	30.972	1.00	22.87	A	C
ATOM	1036	O	TYR	A	134	45.446	69.908	31.746	1.00	22.48	A	O
ATOM	1037	N	LEU	A	135	45.571	69.078	29.650	1.00	22.86	A	N
ATOM	1038	CA	LEU	A	135	45.750	70.377	29.008	1.00	24.08	A	C
ATOM	1039	CB	LEU	A	135	47.048	70.359	28.192	1.00	24.76	A	C
ATOM	1040	CG	LEU	A	135	48.311	69.857	28.906	1.00	25.95	A	C
ATOM	1041	CD1	LEU	A	135	49.461	69.790	27.913	1.00	27.98	A	C
ATOM	1042	CD2	LEU	A	135	48.658	70.779	30.068	1.00	26.13	A	C
ATOM	1043	C	LEU	A	135	44.628	70.873	28.107	1.00	23.53	A	C
ATOM	1044	O	LEU	A	135	44.736	71.957	27.539	1.00	24.90	A	O
ATOM	1045	N	ASN	A	136	43.556	70.100	27.970	1.00	22.37	A	N
ATOM	1046	CA	ASN	A	136	42.450	70.499	27.102	1.00	20.74	A	C
ATOM	1047	CB	ASN	A	136	42.411	69.585	25.876	1.00	21.50	A	C
ATOM	1048	CG	ASN	A	136	41.613	70.170	24.735	1.00	23.18	A	C
ATOM	1049	OD1	ASN	A	136	40.590	70.822	24.945	1.00	25.29	A	O
ATOM	1050	ND2	ASN	A	136	42.068	69.923	23.511	1.00	23.17	A	N
ATOM	1051	C	ASN	A	136	41.146	70.370	27.887	1.00	20.55	A	C
ATOM	1052	O	ASN	A	136	40.430	69.386	27.744	1.00	20.93	A	O
ATOM	1053	N	ILE	A	137	40.847	71.371	28.709	1.00	19.65	A	N
ATOM	1054	CA	ILE	A	137	39.649	71.347	29.545	1.00	19.51	A	C

Figure 6T

ATOM	1055	CB	ILE A 137	40.021	71.504	31.032	1.00	19.77	A	C
ATOM	1056	CG2	ILE A 137	38.792	71.235	31.905	1.00	18.91	A	C
ATOM	1057	CG1	ILE A 137	41.165	70.548	31.388	1.00	17.50	A	C
ATOM	1058	CD1	ILE A 137	41.841	70.877	32.705	1.00	17.99	A	C
ATOM	1059	C	ILE A 137	38.650	72.445	29.214	1.00	18.94	A	C
ATOM	1060	O	ILE A 137	39.008	73.618	29.141	1.00	18.47	A	O
ATOM	1061	N	SER A 138	37.394	72.054	29.019	1.00	18.59	A	N
ATOM	1062	CA	SER A 138	36.319	73.000	28.729	1.00	19.77	A	C
ATOM	1063	CB	SER A 138	35.810	72.829	27.294	1.00	21.73	A	C
ATOM	1064	OG	SER A 138	36.823	73.104	26.345	1.00	24.47	A	O
ATOM	1065	C	SER A 138	35.177	72.716	29.698	1.00	19.64	A	C
ATOM	1066	O	SER A 138	34.971	71.569	30.102	1.00	20.10	A	O
ATOM	1067	N	HIS A 139	34.443	73.753	30.083	1.00	18.51	A	N
ATOM	1068	CA	HIS A 139	33.319	73.565	30.993	1.00	18.98	A	C
ATOM	1069	CB	HIS A 139	33.697	73.982	32.418	1.00	18.17	A	C
ATOM	1070	CG	HIS A 139	34.220	75.380	32.522	1.00	19.94	A	C
ATOM	1071	CD2	HIS A 139	33.634	76.575	32.268	1.00	20.85	A	C
ATOM	1072	ND1	HIS A 139	35.506	75.661	32.926	1.00	20.98	A	N
ATOM	1073	CE1	HIS A 139	35.692	76.970	32.916	1.00	24.03	A	C
ATOM	1074	NE2	HIS A 139	34.572	77.547	32.520	1.00	22.03	A	N
ATOM	1075	C	HIS A 139	32.082	74.329	30.552	1.00	18.46	A	C
ATOM	1076	O	HIS A 139	32.181	75.372	29.909	1.00	19.58	A	O
ATOM	1077	N	LEU A 140	30.918	73.791	30.902	1.00	18.71	A	N
ATOM	1078	CA	LEU A 140	29.634	74.403	30.573	1.00	19.01	A	C
ATOM	1079	CB	LEU A 140	29.028	73.775	29.316	1.00	20.85	A	C
ATOM	1080	CG	LEU A 140	29.476	74.190	27.918	1.00	22.92	A	C
ATOM	1081	CD1	LEU A 140	28.667	73.394	26.904	1.00	21.79	A	C
ATOM	1082	CD2	LEU A 140	29.255	75.688	27.709	1.00	25.42	A	C
ATOM	1083	C	LEU A 140	28.632	74.227	31.702	1.00	17.69	A	C
ATOM	1084	O	LEU A 140	28.422	73.118	32.194	1.00	17.06	A	O
ATOM	1085	N	ALA A 141	28.008	75.322	32.112	1.00	18.99	A	N
ATOM	1086	CA	ALA A 141	26.995	75.256	33.153	1.00	18.92	A	C
ATOM	1087	CB	ALA A 141	26.976	76.553	33.955	1.00	19.92	A	C
ATOM	1088	C	ALA A 141	25.653	75.046	32.456	1.00	20.05	A	C
ATOM	1089	O	ALA A 141	25.002	76.007	32.053	1.00	22.92	A	O
ATOM	1090	N	THR A 142	25.250	73.790	32.299	1.00	17.67	A	N
ATOM	1091	CA	THR A 142	23.983	73.456	31.650	1.00	15.92	A	C
ATOM	1092	CB	THR A 142	24.069	72.061	30.991	1.00	15.55	A	C
ATOM	1093	OG1	THR A 142	24.474	71.094	31.969	1.00	15.28	A	O
ATOM	1094	CG2	THR A 142	25.091	72.069	29.862	1.00	16.16	A	C
ATOM	1095	C	THR A 142	22.890	73.462	32.725	1.00	16.51	A	C
ATOM	1096	O	THR A 142	22.195	72.469	32.942	1.00	15.07	A	O
ATOM	1097	N	SER A 143	22.746	74.608	33.382	1.00	15.40	A	N
ATOM	1098	CA	SER A 143	21.797	74.779	34.479	1.00	16.69	A	C
ATOM	1099	CB	SER A 143	21.745	76.254	34.886	1.00	18.40	A	C
ATOM	1100	OG	SER A 143	20.979	76.419	36.068	1.00	19.14	A	O
ATOM	1101	C	SER A 143	20.374	74.259	34.266	1.00	16.28	A	C
ATOM	1102	O	SER A 143	19.838	73.555	35.119	1.00	17.50	A	O
ATOM	1103	N	LEU A 144	19.766	74.597	33.133	1.00	15.61	A	N
ATOM	1104	CA	LEU A 144	18.397	74.174	32.850	1.00	16.29	A	C
ATOM	1105	CB	LEU A 144	17.920	74.855	31.567	1.00	18.23	A	C
ATOM	1106	CG	LEU A 144	17.915	76.379	31.743	1.00	21.65	A	C
ATOM	1107	CD1	LEU A 144	17.543	77.079	30.440	1.00	21.02	A	C
ATOM	1108	CD2	LEU A 144	16.931	76.741	32.854	1.00	19.77	A	C
ATOM	1109	C	LEU A 144	18.171	72.657	32.772	1.00	15.16	A	C
ATOM	1110	O	LEU A 144	17.036	72.184	32.874	1.00	13.64	A	O
ATOM	1111	N	PHE A 145	19.238	71.888	32.600	1.00	13.93	A	N
ATOM	1112	CA	PHE A 145	19.080	70.437	32.545	1.00	11.95	A	C

Figure 6U

ATOM	1113	CB	PHE A 145	20.436	69.742	32.374	1.00	13.43	A	C
ATOM	1114	CG	PHE A 145	21.000	69.808	30.976	1.00	17.43	A	C
ATOM	1115	CD1	PHE A 145	22.248	69.260	30.703	1.00	15.45	A	C
ATOM	1116	CD2	PHE A 145	20.287	70.399	29.933	1.00	17.04	A	C
ATOM	1117	CE1	PHE A 145	22.783	69.295	29.420	1.00	18.35	A	C
ATOM	1118	CE2	PHE A 145	20.815	70.440	28.642	1.00	15.38	A	C
ATOM	1119	CZ	PHE A 145	22.064	69.889	28.385	1.00	16.89	A	C
ATOM	1120	C	PHE A 145	18.436	69.956	33.846	1.00	12.03	A	C
ATOM	1121	O	PHE A 145	17.600	69.064	33.839	1.00	11.95	A	O
ATOM	1122	N	VAL A 146	18.813	70.564	34.965	1.00	12.43	A	N
ATOM	1123	CA	VAL A 146	18.269	70.150	36.255	1.00	11.55	A	C
ATOM	1124	CB	VAL A 146	18.931	70.941	37.420	1.00	11.44	A	C
ATOM	1125	CG1	VAL A 146	18.203	70.669	38.739	1.00	12.27	A	C
ATOM	1126	CG2	VAL A 146	20.389	70.523	37.541	1.00	12.17	A	C
ATOM	1127	C	VAL A 146	16.741	70.243	36.344	1.00	13.17	A	C
ATOM	1128	O	VAL A 146	16.081	69.236	36.566	1.00	13.35	A	O
ATOM	1129	N	PRO A 147	16.157	71.442	36.168	1.00	14.55	A	N
ATOM	1130	CD	PRO A 147	16.725	72.794	36.014	1.00	12.51	A	C
ATOM	1131	CA	PRO A 147	14.693	71.491	36.260	1.00	15.45	A	C
ATOM	1132	CB	PRO A 147	14.386	72.995	36.197	1.00	16.91	A	C
ATOM	1133	CG	PRO A 147	15.556	73.569	35.463	1.00	13.21	A	C
ATOM	1134	C	PRO A 147	13.972	70.682	35.178	1.00	13.90	A	C
ATOM	1135	O	PRO A 147	12.910	70.111	35.433	1.00	15.62	A	O
ATOM	1136	N	LEU A 148	14.549	70.614	33.982	1.00	11.79	A	N
ATOM	1137	CA	LEU A 148	13.929	69.844	32.911	1.00	13.83	A	C
ATOM	1138	CB	LEU A 148	14.748	69.947	31.620	1.00	15.89	A	C
ATOM	1139	CG	LEU A 148	14.193	70.877	30.540	1.00	14.82	A	C
ATOM	1140	CD1	LEU A 148	14.146	72.296	31.057	1.00	18.80	A	C
ATOM	1141	CD2	LEU A 148	15.070	70.792	29.300	1.00	16.16	A	C
ATOM	1142	C	LEU A 148	13.833	68.389	33.336	1.00	13.84	A	C
ATOM	1143	O	LEU A 148	12.786	67.755	33.204	1.00	15.22	A	O
ATOM	1144	N	ILE A 149	14.935	67.872	33.861	1.00	12.81	A	N
ATOM	1145	CA	ILE A 149	14.985	66.493	34.312	1.00	13.21	A	C
ATOM	1146	CB	ILE A 149	16.425	66.111	34.703	1.00	14.51	A	C
ATOM	1147	CG2	ILE A 149	16.444	64.756	35.402	1.00	12.63	A	C
ATOM	1148	CG1	ILE A 149	17.291	66.093	33.434	1.00	15.10	A	C
ATOM	1149	CD1	ILE A 149	18.777	65.893	33.673	1.00	10.57	A	C
ATOM	1150	C	ILE A 149	14.026	66.258	35.470	1.00	14.45	A	C
ATOM	1151	O	ILE A 149	13.425	65.195	35.571	1.00	15.79	A	O
ATOM	1152	N	GLU A 150	13.859	67.256	36.328	1.00	14.06	A	N
ATOM	1153	CA	GLU A 150	12.943	67.121	37.449	1.00	15.01	A	C
ATOM	1154	CB	GLU A 150	13.206	68.228	38.466	1.00	18.77	A	C
ATOM	1155	CG	GLU A 150	14.447	67.930	39.291	1.00	26.06	A	C
ATOM	1156	CD	GLU A 150	14.824	69.044	40.227	1.00	28.16	A	C
ATOM	1157	OE1	GLU A 150	15.731	68.821	41.056	1.00	26.46	A	O
ATOM	1158	OE2	GLU A 150	14.222	70.138	40.128	1.00	31.52	A	O
ATOM	1159	C	GLU A 150	11.481	67.116	37.000	1.00	15.40	A	C
ATOM	1160	O	GLU A 150	10.615	66.617	37.719	1.00	14.17	A	O
ATOM	1161	N	GLU A 151	11.212	67.680	35.822	1.00	13.23	A	N
ATOM	1162	CA	GLU A 151	9.860	67.703	35.265	1.00	15.55	A	C
ATOM	1163	CB	GLU A 151	9.619	68.971	34.442	1.00	16.54	A	C
ATOM	1164	CG	GLU A 151	9.533	70.248	35.267	1.00	20.37	A	C
ATOM	1165	CD	GLU A 151	8.528	70.151	36.401	1.00	23.39	A	C
ATOM	1166	OE1	GLU A 151	7.332	69.901	36.134	1.00	24.54	A	O
ATOM	1167	OE2	GLU A 151	8.937	70.326	37.566	1.00	27.18	A	O
ATOM	1168	C	GLU A 151	9.687	66.487	34.368	1.00	17.22	A	C
ATOM	1169	O	GLU A 151	8.668	66.331	33.687	1.00	16.37	A	O
ATOM	1170	N	SER A 152	10.702	65.632	34.376	1.00	18.04	A	N

Figure 6V

ATOM	1171	CA	SER A 152	10.722	64.413	33.578	1.00	18.02	A	C
ATOM	1172	CB	SER A 152	9.559	63.493	33.949	1.00	19.94	A	C
ATOM	1173	OG	SER A 152	9.768	62.207	33.390	1.00	18.81	A	O
ATOM	1174	C	SER A 152	10.699	64.673	32.081	1.00	20.44	A	C
ATOM	1175	O	SER A 152	10.013	63.980	31.323	1.00	22.59	A	O
ATOM	1176	N	ILE A 153	11.443	65.682	31.653	1.00	19.73	A	N
ATOM	1177	CA	ILE A 153	11.541	65.998	30.239	1.00	21.13	A	C
ATOM	1178	CB	ILE A 153	11.541	67.521	30.016	1.00	23.26	A	C
ATOM	1179	CG	ILE A 153	11.800	67.846	28.546	1.00	22.78	A	C
ATOM	1180	CG1	ILE A 153	10.190	68.086	30.474	1.00	25.17	A	C
ATOM	1181	CD1	ILE A 153	10.005	69.547	30.207	1.00	30.23	A	C
ATOM	1182	C	ILE A 153	12.865	65.372	29.832	1.00	21.67	A	C
ATOM	1183	O	ILE A 153	13.900	66.037	29.784	1.00	20.32	A	O
ATOM	1184	N	LEU A 154	12.811	64.069	29.565	1.00	18.75	A	N
ATOM	1185	CA	LEU A 154	13.986	63.281	29.218	1.00	20.85	A	C
ATOM	1186	CB	LEU A 154	13.939	61.972	30.003	1.00	21.22	A	C
ATOM	1187	CG	LEU A 154	13.540	62.197	31.467	1.00	22.53	A	C
ATOM	1188	CD1	LEU A 154	13.353	60.868	32.182	1.00	21.31	A	C
ATOM	1189	CD2	LEU A 154	14.604	63.040	32.154	1.00	20.71	A	C
ATOM	1190	C	LEU A 154	14.131	62.994	27.726	1.00	21.27	A	C
ATOM	1191	O	LEU A 154	14.969	62.194	27.313	1.00	20.75	A	O
ATOM	1192	N	GLU A 155	13.302	63.649	26.927	1.00	23.77	A	N
ATOM	1193	CA	GLU A 155	13.333	63.499	25.478	1.00	26.10	A	C
ATOM	1194	CB	GLU A 155	12.948	62.069	25.074	1.00	30.66	A	C
ATOM	1195	CG	GLU A 155	11.661	61.554	25.686	1.00	38.37	A	C
ATOM	1196	CD	GLU A 155	10.445	61.898	24.860	1.00	42.76	A	C
ATOM	1197	OE1	GLU A 155	9.322	61.571	25.299	1.00	48.12	A	O
ATOM	1198	OE2	GLU A 155	10.609	62.488	23.771	1.00	46.52	A	O
ATOM	1199	C	GLU A 155	12.366	64.517	24.893	1.00	24.72	A	C
ATOM	1200	O	GLU A 155	11.759	65.288	25.633	1.00	23.59	A	O
ATOM	1201	N	GLY A 156	12.236	64.538	23.573	1.00	23.02	A	N
ATOM	1202	CA	GLY A 156	11.333	65.492	22.958	1.00	21.08	A	C
ATOM	1203	C	GLY A 156	12.047	66.742	22.485	1.00	22.30	A	C
ATOM	1204	O	GLY A 156	13.243	66.925	22.728	1.00	21.15	A	O
ATOM	1205	N	GLU A 157	11.299	67.612	21.817	1.00	20.99	A	N
ATOM	1206	CA	GLU A 157	11.847	68.844	21.268	1.00	22.12	A	C
ATOM	1207	CB	GLU A 157	10.786	69.539	20.412	1.00	25.41	A	C
ATOM	1208	CG	GLU A 157	11.366	70.505	19.398	1.00	32.26	A	C
ATOM	1209	CD	GLU A 157	10.304	71.341	18.720	1.00	37.00	A	C
ATOM	1210	OE1	GLU A 157	9.332	70.758	18.186	1.00	41.42	A	O
ATOM	1211	OE2	GLU A 157	10.443	72.583	18.719	1.00	39.91	A	O
ATOM	1212	C	GLU A 157	12.386	69.835	22.302	1.00	19.65	A	C
ATOM	1213	O	GLU A 157	13.377	70.518	22.053	1.00	18.65	A	O
ATOM	1214	N	LEU A 158	11.734	69.925	23.453	1.00	18.49	A	N
ATOM	1215	CA	LEU A 158	12.172	70.861	24.485	1.00	20.02	A	C
ATOM	1216	CB	LEU A 158	11.174	70.870	25.653	1.00	19.53	A	C
ATOM	1217	CG	LEU A 158	11.410	71.891	26.773	1.00	21.01	A	C
ATOM	1218	CD1	LEU A 158	11.661	73.280	26.191	1.00	20.32	A	C
ATOM	1219	CD2	LEU A 158	10.197	71.910	27.697	1.00	19.63	A	C
ATOM	1220	C	LEU A 158	13.581	70.529	24.976	1.00	17.50	A	C
ATOM	1221	O	LEU A 158	14.424	71.417	25.101	1.00	17.99	A	O
ATOM	1222	N	LEU A 159	13.846	69.253	25.240	1.00	18.72	A	N
ATOM	1223	CA	LEU A 159	15.180	68.856	25.693	1.00	17.84	A	C
ATOM	1224	CB	LEU A 159	15.202	67.377	26.105	1.00	17.62	A	C
ATOM	1225	CG	LEU A 159	16.585	66.818	26.488	1.00	16.01	A	C
ATOM	1226	CD1	LEU A 159	17.125	67.557	27.713	1.00	16.76	A	C
ATOM	1227	CD2	LEU A 159	16.478	65.324	26.775	1.00	16.92	A	C
ATOM	1228	C	LEU A 159	16.185	69.091	24.571	1.00	18.06	A	C

Figure 6W

ATOM	1229	O	LEU A 159	17.274	69.629	24.792	1.00	15.90	A	O
ATOM	1230	N	GLU A 160	15.805	68.686	23.363	1.00	17.23	A	N
ATOM	1231	CA	GLU A 160	16.660	68.846	22.199	1.00	19.74	A	C
ATOM	1232	CB	GLU A 160	15.936	68.322	20.951	1.00	22.63	A	C
ATOM	1233	CG	GLU A 160	16.613	68.624	19.612	1.00	25.09	A	C
ATOM	1234	CD	GLU A 160	18.020	68.058	19.496	1.00	28.46	A	C
ATOM	1235	OE1	GLU A 160	18.320	67.041	20.156	1.00	24.99	A	O
ATOM	1236	OE2	GLU A 160	18.824	68.626	18.725	1.00	29.33	A	O
ATOM	1237	C	GLU A 160	17.025	70.316	22.023	1.00	17.75	A	C
ATOM	1238	O	GLU A 160	18.188	70.655	21.795	1.00	17.75	A	O
ATOM	1239	N	THR A 161	16.031	71.188	22.140	1.00	15.91	A	N
ATOM	1240	CA	THR A 161	16.274	72.615	21.984	1.00	17.08	A	C
ATOM	1241	CB	THR A 161	14.955	73.402	21.946	1.00	19.03	A	C
ATOM	1242	OG1	THR A 161	14.165	72.943	20.841	1.00	18.83	A	O
ATOM	1243	CG2	THR A 161	15.225	74.888	21.770	1.00	18.63	A	C
ATOM	1244	C	THR A 161	17.159	73.154	23.104	1.00	16.80	A	C
ATOM	1245	O	THR A 161	17.998	74.029	22.875	1.00	16.81	A	O
ATOM	1246	N	CYS A 162	16.977	72.623	24.309	1.00	15.47	A	N
ATOM	1247	CA	CYS A 162	17.772	73.054	25.451	1.00	16.48	A	C
ATOM	1248	CB	CYS A 162	17.217	72.456	26.748	1.00	17.44	A	C
ATOM	1249	SG	CYS A 162	17.994	73.125	28.246	1.00	17.16	A	S
ATOM	1250	C	CYS A 162	19.226	72.624	25.264	1.00	16.12	A	C
ATOM	1251	O	CYS A 162	20.148	73.390	25.547	1.00	15.64	A	O
ATOM	1252	N	MET A 163	19.433	71.395	24.797	1.00	16.12	A	N
ATOM	1253	CA	MET A 163	20.792	70.913	24.578	1.00	16.90	A	C
ATOM	1254	CB	MET A 163	20.796	69.446	24.152	1.00	17.54	A	C
ATOM	1255	CG	MET A 163	20.259	68.491	25.198	1.00	18.15	A	C
ATOM	1256	SD	MET A 163	20.679	66.775	24.864	1.00	18.78	A	S
ATOM	1257	CE	MET A 163	19.539	66.408	23.514	1.00	18.51	A	C
ATOM	1258	C	MET A 163	21.427	71.760	23.483	1.00	16.80	A	C
ATOM	1259	O	MET A 163	22.601	72.109	23.554	1.00	17.90	A	O
ATOM	1260	N	HIS A 164	20.637	72.083	22.467	1.00	17.35	A	N
ATOM	1261	CA	HIS A 164	21.119	72.893	21.359	1.00	18.77	A	C
ATOM	1262	CB	HIS A 164	20.009	73.065	20.317	1.00	21.03	A	C
ATOM	1263	CG	HIS A 164	20.451	73.784	19.082	1.00	26.61	A	C
ATOM	1264	CD2	HIS A 164	20.862	73.317	17.879	1.00	27.02	A	C
ATOM	1265	ND1	HIS A 164	20.559	75.156	19.018	1.00	26.82	A	N
ATOM	1266	CE1	HIS A 164	21.020	75.503	17.829	1.00	28.20	A	C
ATOM	1267	NE2	HIS A 164	21.212	74.406	17.119	1.00	26.69	A	N
ATOM	1268	C	HIS A 164	21.573	74.249	21.872	1.00	17.93	A	C
ATOM	1269	O	HIS A 164	22.630	74.758	21.483	1.00	18.32	A	O
ATOM	1270	N	TYR A 165	20.775	74.821	22.765	1.00	16.78	A	N
ATOM	1271	CA	TYR A 165	21.073	76.120	23.352	1.00	17.03	A	C
ATOM	1272	CB	TYR A 165	20.004	76.486	24.383	1.00	16.70	A	C
ATOM	1273	CG	TYR A 165	20.323	77.728	25.186	1.00	14.36	A	C
ATOM	1274	CD1	TYR A 165	20.249	78.998	24.611	1.00	18.03	A	C
ATOM	1275	CE1	TYR A 165	20.567	80.144	25.350	1.00	17.68	A	C
ATOM	1276	CD2	TYR A 165	20.722	77.633	26.518	1.00	15.98	A	C
ATOM	1277	CE2	TYR A 165	21.042	78.767	27.263	1.00	15.67	A	C
ATOM	1278	CZ	TYR A 165	20.964	80.015	26.675	1.00	17.67	A	C
ATOM	1279	OH	TYR A 165	21.296	81.128	27.414	1.00	19.35	A	O
ATOM	1280	C	TYR A 165	22.440	76.144	24.025	1.00	18.18	A	C
ATOM	1281	O	TYR A 165	23.202	77.089	23.848	1.00	18.56	A	O
ATOM	1282	N	TYR A 166	22.745	75.101	24.795	1.00	16.65	A	N
ATOM	1283	CA	TYR A 166	24.016	75.022	25.516	1.00	16.14	A	C
ATOM	1284	CB	TYR A 166	23.879	74.113	26.745	1.00	15.22	A	C
ATOM	1285	CG	TYR A 166	23.063	74.681	27.887	1.00	14.44	A	C
ATOM	1286	CD1	TYR A 166	21.955	73.994	28.380	1.00	13.39	A	C

Figure 6X

ATOM	1287	CE1 TYR A 166	21.202	74.506	29.438	1.00	14.31	A	C
ATOM	1288	CD2 TYR A 166	23.403	75.898	28.481	1.00	14.07	A	C
ATOM	1289	CE2 TYR A 166	22.660	76.419	29.537	1.00	13.27	A	C
ATOM	1290	CZ TYR A 166	21.558	75.717	30.008	1.00	15.59	A	C
ATOM	1291	OH TYR A 166	20.800	76.228	31.033	1.00	13.70	A	O
ATOM	1292	C TYR A 166	25.207	74.520	24.710	1.00	16.15	A	C
ATOM	1293	O TYR A 166	26.320	75.020	24.862	1.00	18.32	A	O
ATOM	1294	N PHE A 167	24.977	73.532	23.858	1.00	16.40	A	N
ATOM	1295	CA PHE A 167	26.063	72.926	23.099	1.00	19.32	A	C
ATOM	1296	CB PHE A 167	25.696	71.466	22.811	1.00	18.55	A	C
ATOM	1297	CG PHE A 167	25.487	70.633	24.056	1.00	17.57	A	C
ATOM	1298	CD1 PHE A 167	24.611	69.551	24.044	1.00	17.73	A	C
ATOM	1299	CD2 PHE A 167	26.179	70.920	25.232	1.00	17.53	A	C
ATOM	1300	CE1 PHE A 167	24.429	68.766	25.186	1.00	17.59	A	C
ATOM	1301	CE2 PHE A 167	26.005	70.140	26.378	1.00	15.09	A	C
ATOM	1302	CZ PHE A 167	25.130	69.063	26.354	1.00	15.31	A	C
ATOM	1303	C PHE A 167	26.517	73.613	21.810	1.00	21.91	A	C
ATOM	1304	O PHE A 167	27.693	73.529	21.444	1.00	18.63	A	O
ATOM	1305	N THR A 168	25.600	74.293	21.128	1.00	23.53	A	N
ATOM	1306	CA THR A 168	25.940	74.958	19.871	1.00	25.11	A	C
ATOM	1307	CB THR A 168	24.757	75.788	19.346	1.00	24.47	A	C
ATOM	1308	OG1 THR A 168	23.646	74.919	19.099	1.00	28.03	A	O
ATOM	1309	CG2 THR A 168	25.133	76.488	18.048	1.00	28.49	A	C
ATOM	1310	C THR A 168	27.182	75.849	19.920	1.00	24.43	A	C
ATOM	1311	O THR A 168	27.989	75.836	18.995	1.00	26.62	A	O
ATOM	1312	N PRO A 169	27.347	76.640	20.992	1.00	25.87	A	N
ATOM	1313	CD PRO A 169	26.337	76.983	22.009	1.00	23.89	A	C
ATOM	1314	CA PRO A 169	28.512	77.523	21.113	1.00	28.42	A	C
ATOM	1315	CB PRO A 169	28.198	78.329	22.372	1.00	25.95	A	C
ATOM	1316	CG PRO A 169	26.709	78.406	22.351	1.00	26.22	A	C
ATOM	1317	C PRO A 169	29.868	76.813	21.210	1.00	30.41	A	C
ATOM	1318	O PRO A 169	30.914	77.440	21.035	1.00	30.45	A	O
ATOM	1319	N LEU A 170	29.853	75.512	21.487	1.00	32.27	A	N
ATOM	1320	CA LEU A 170	31.094	74.755	21.611	1.00	34.59	A	C
ATOM	1321	CB LEU A 170	30.808	73.338	22.098	1.00	33.83	A	C
ATOM	1322	CG LEU A 170	30.417	73.202	23.568	1.00	32.01	A	C
ATOM	1323	CD1 LEU A 170	30.035	71.760	23.848	1.00	29.69	A	C
ATOM	1324	CD2 LEU A 170	31.579	73.641	24.458	1.00	29.22	A	C
ATOM	1325	C LEU A 170	31.897	74.677	20.323	1.00	37.74	A	C
ATOM	1326	O LEU A 170	31.358	74.386	19.254	1.00	39.31	A	O
ATOM	1327	N GLU A 171	33.197	74.924	20.434	1.00	40.03	A	N
ATOM	1328	CA GLU A 171	34.076	74.871	19.276	1.00	43.34	A	C
ATOM	1329	CB GLU A 171	34.750	76.229	19.067	1.00	48.27	A	C
ATOM	1330	CG GLU A 171	33.759	77.349	18.782	1.00	54.56	A	C
ATOM	1331	CD GLU A 171	33.072	77.200	17.431	1.00	59.45	A	C
ATOM	1332	OE1 GLU A 171	32.919	76.051	16.953	1.00	60.27	A	O
ATOM	1333	OE2 GLU A 171	32.672	78.237	16.852	1.00	61.77	A	O
ATOM	1334	C GLU A 171	35.120	73.777	19.447	1.00	42.59	A	C
ATOM	1335	O GLU A 171	36.239	73.888	18.951	1.00	43.77	A	O
ATOM	1336	N ILE A 172	34.741	72.717	20.155	1.00	40.35	A	N
ATOM	1337	CA ILE A 172	35.636	71.589	20.391	1.00	38.22	A	C
ATOM	1338	CB ILE A 172	36.155	71.569	21.842	1.00	37.75	A	C
ATOM	1339	CG2 ILE A 172	36.806	72.901	22.184	1.00	34.13	A	C
ATOM	1340	CG1 ILE A 172	34.997	71.276	22.797	1.00	36.28	A	C
ATOM	1341	CD1 ILE A 172	35.430	70.993	24.225	1.00	40.90	A	C
ATOM	1342	C ILE A 172	34.911	70.272	20.145	1.00	36.42	A	C
ATOM	1343	O ILE A 172	33.688	70.200	20.222	1.00	39.20	A	O
ATOM	1344	N LEU A 173	35.674	69.231	19.838	1.00	34.80	A	N

Figure 6Y

ATOM	1345	CA	LEU A 173	35.104	67.910	19.612	1.00	32.15	A	C
ATOM	1346	CB	LEU A 173	35.718	67.265	18.363	1.00	33.04	A	C
ATOM	1347	CG	LEU A 173	35.480	67.998	17.037	1.00	34.61	A	C
ATOM	1348	CD1	LEU A 173	36.221	67.290	15.910	1.00	33.74	A	C
ATOM	1349	CD2	LEU A 173	33.979	68.056	16.747	1.00	34.77	A	C
ATOM	1350	C	LEU A 173	35.454	67.102	20.855	1.00	29.45	A	C
ATOM	1351	O	LEU A 173	36.481	66.424	20.896	1.00	27.62	A	O
ATOM	1352	N	PRO A 174	34.598	67.167	21.891	1.00	27.18	A	N
ATOM	1353	CD	PRO A 174	33.272	67.811	21.931	1.00	26.43	A	C
ATOM	1354	CA	PRO A 174	34.858	66.432	23.132	1.00	24.33	A	C
ATOM	1355	CB	PRO A 174	33.646	66.772	24.003	1.00	25.04	A	C
ATOM	1356	CG	PRO A 174	32.560	67.015	22.997	1.00	27.39	A	C
ATOM	1357	C	PRO A 174	35.067	64.934	22.991	1.00	21.39	A	C
ATOM	1358	O	PRO A 174	34.335	64.250	22.277	1.00	22.17	A	O
ATOM	1359	N	GLU A 175	36.088	64.438	23.679	1.00	19.42	A	N
ATOM	1360	CA	GLU A 175	36.405	63.021	23.683	1.00	19.85	A	C
ATOM	1361	CB	GLU A 175	37.905	62.821	23.465	1.00	21.90	A	C
ATOM	1362	CG	GLU A 175	38.320	62.869	21.999	1.00	27.70	A	C
ATOM	1363	CD	GLU A 175	39.823	62.943	21.802	1.00	27.64	A	C
ATOM	1364	OE1	GLU A 175	40.565	62.242	22.523	1.00	28.19	A	O
ATOM	1365	OE2	GLU A 175	40.260	63.701	20.913	1.00	30.42	A	O
ATOM	1366	C	GLU A 175	35.983	62.473	25.044	1.00	19.80	A	C
ATOM	1367	O	GLU A 175	35.855	61.263	25.239	1.00	19.75	A	O
ATOM	1368	N	VAL A 176	35.762	63.383	25.986	1.00	18.80	A	N
ATOM	1369	CA	VAL A 176	35.349	63.006	27.330	1.00	17.58	A	C
ATOM	1370	CB	VAL A 176	36.550	62.981	28.313	1.00	16.92	A	C
ATOM	1371	CG1	VAL A 176	36.091	62.488	29.676	1.00	15.99	A	C
ATOM	1372	CG2	VAL A 176	37.661	62.087	27.772	1.00	16.67	A	C
ATOM	1373	C	VAL A 176	34.330	64.014	27.840	1.00	16.96	A	C
ATOM	1374	O	VAL A 176	34.533	65.224	27.746	1.00	17.95	A	O
ATOM	1375	N	ILE A 177	33.222	63.509	28.362	1.00	17.35	A	N
ATOM	1376	CA	ILE A 177	32.184	64.373	28.902	1.00	15.36	A	C
ATOM	1377	CB	ILE A 177	30.873	64.272	28.100	1.00	15.94	A	C
ATOM	1378	CG2	ILE A 177	29.805	65.149	28.759	1.00	14.07	A	C
ATOM	1379	CG1	ILE A 177	31.113	64.699	26.647	1.00	17.19	A	C
ATOM	1380	CD1	ILE A 177	29.880	64.597	25.748	1.00	18.12	A	C
ATOM	1381	C	ILE A 177	31.896	63.970	30.334	1.00	14.25	A	C
ATOM	1382	O	ILE A 177	31.499	62.833	30.609	1.00	15.75	A	O
ATOM	1383	N	ILE A 178	32.108	64.900	31.253	1.00	14.90	A	N
ATOM	1384	CA	ILE A 178	31.841	64.618	32.647	1.00	12.36	A	C
ATOM	1385	CB	ILE A 178	32.770	65.419	33.573	1.00	14.08	A	C
ATOM	1386	CG2	ILE A 178	32.465	65.085	35.026	1.00	10.97	A	C
ATOM	1387	CG1	ILE A 178	34.229	65.095	33.248	1.00	13.91	A	C
ATOM	1388	CD1	ILE A 178	35.235	65.846	34.106	1.00	13.08	A	C
ATOM	1389	C	ILE A 178	30.396	64.988	32.950	1.00	12.88	A	C
ATOM	1390	O	ILE A 178	29.949	66.103	32.671	1.00	13.50	A	O
ATOM	1391	N	LEU A 179	29.659	64.038	33.506	1.00	12.90	A	N
ATOM	1392	CA	LEU A 179	28.270	64.288	33.867	1.00	14.35	A	C
ATOM	1393	CB	LEU A 179	27.465	62.992	33.717	1.00	14.31	A	C
ATOM	1394	CG	LEU A 179	27.542	62.418	32.298	1.00	15.12	A	C
ATOM	1395	CD1	LEU A 179	26.919	61.033	32.251	1.00	20.10	A	C
ATOM	1396	CD2	LEU A 179	26.844	63.361	31.336	1.00	20.25	A	C
ATOM	1397	C	LEU A 179	28.320	64.760	35.319	1.00	13.67	A	C
ATOM	1398	O	LEU A 179	27.829	64.085	36.224	1.00	15.54	A	O
ATOM	1399	N	GLY A 180	28.930	65.931	35.512	1.00	11.65	A	N
ATOM	1400	CA	GLY A 180	29.117	66.517	36.834	1.00	12.90	A	C
ATOM	1401	C	GLY A 180	27.910	67.040	37.593	1.00	10.74	A	C
ATOM	1402	O	GLY A 180	27.955	68.116	38.191	1.00	12.43	A	O

Figure 6Z

ATOM	1403	N	CYS A 181	26.835	66.267	37.589	1.00	11.19	A	N
ATOM	1404	CA	CYS A 181	25.608	66.640	38.287	1.00	12.85	A	C
ATOM	1405	CB	CYS A 181	24.832	67.662	37.455	1.00	10.63	A	C
ATOM	1406	SG	CYS A 181	23.232	68.156	38.139	1.00	12.80	A	S
ATOM	1407	C	CYS A 181	24.769	65.379	38.482	1.00	10.40	A	C
ATOM	1408	O	CYS A 181	24.655	64.567	37.565	1.00	12.33	A	O
ATOM	1409	N	THR A 182	24.195	65.218	39.673	1.00	11.84	A	N
ATOM	1410	CA	THR A 182	23.374	64.050	39.993	1.00	10.35	A	C
ATOM	1411	CB	THR A 182	22.661	64.207	41.363	1.00	10.67	A	C
ATOM	1412	OG1	THR A 182	21.912	65.435	41.381	1.00	8.58	A	O
ATOM	1413	CG2	THR A 182	23.672	64.197	42.500	1.00	7.64	A	C
ATOM	1414	C	THR A 182	22.283	63.760	38.966	1.00	11.06	A	C
ATOM	1415	O	THR A 182	21.936	62.610	38.733	1.00	10.76	A	O
ATOM	1416	N	HIS A 183	21.739	64.810	38.364	1.00	9.82	A	N
ATOM	1417	CA	HIS A 183	20.649	64.666	37.400	1.00	12.23	A	C
ATOM	1418	CB	HIS A 183	19.884	65.990	37.276	1.00	10.20	A	C
ATOM	1419	CG	HIS A 183	19.136	66.386	38.510	1.00	10.97	A	C
ATOM	1420	CD2	HIS A 183	17.905	66.930	38.668	1.00	7.50	A	C
ATOM	1421	ND1	HIS A 183	19.677	66.290	39.774	1.00	11.77	A	N
ATOM	1422	CE1	HIS A 183	18.812	66.758	40.658	1.00	10.61	A	C
ATOM	1423	NE2	HIS A 183	17.729	67.154	40.012	1.00	10.59	A	N
ATOM	1424	C	HIS A 183	21.020	64.221	35.990	1.00	10.73	A	C
ATOM	1425	O	HIS A 183	20.228	63.569	35.323	1.00	12.38	A	O
ATOM	1426	N	PHE A 184	22.221	64.570	35.545	1.00	12.86	A	N
ATOM	1427	CA	PHE A 184	22.645	64.280	34.180	1.00	12.13	A	C
ATOM	1428	CB	PHE A 184	23.988	64.976	33.925	1.00	11.91	A	C
ATOM	1429	CG	PHE A 184	23.927	66.488	34.096	1.00	11.77	A	C
ATOM	1430	CD1	PHE A 184	25.057	67.276	33.896	1.00	13.67	A	C
ATOM	1431	CD2	PHE A 184	22.739	67.116	34.482	1.00	9.45	A	C
ATOM	1432	CE1	PHE A 184	25.009	68.666	34.081	1.00	11.33	A	C
ATOM	1433	CE2	PHE A 184	22.681	68.502	34.670	1.00	12.83	A	C
ATOM	1434	CZ	PHE A 184	23.819	69.278	34.469	1.00	9.95	A	C
ATOM	1435	C	PHE A 184	22.655	62.833	33.670	1.00	12.53	A	C
ATOM	1436	O	PHE A 184	22.429	62.596	32.481	1.00	14.09	A	O
ATOM	1437	N	PRO A 185	22.902	61.847	34.545	1.00	13.81	A	N
ATOM	1438	CD	PRO A 185	23.442	61.881	35.918	1.00	14.48	A	C
ATOM	1439	CA	PRO A 185	22.893	60.475	34.026	1.00	13.96	A	C
ATOM	1440	CB	PRO A 185	23.165	59.640	35.275	1.00	14.58	A	C
ATOM	1441	CG	PRO A 185	24.112	60.522	36.032	1.00	12.13	A	C
ATOM	1442	C	PRO A 185	21.554	60.121	33.367	1.00	15.04	A	C
ATOM	1443	O	PRO A 185	21.492	59.261	32.489	1.00	13.75	A	O
ATOM	1444	N	LEU A 186	20.485	60.790	33.791	1.00	13.98	A	N
ATOM	1445	CA	LEU A 186	19.156	60.525	33.243	1.00	13.19	A	C
ATOM	1446	CB	LEU A 186	18.080	61.193	34.108	1.00	13.71	A	C
ATOM	1447	CG	LEU A 186	17.634	60.379	35.334	1.00	15.55	A	C
ATOM	1448	CD1	LEU A 186	18.802	60.174	36.288	1.00	18.92	A	C
ATOM	1449	CD2	LEU A 186	16.493	61.099	36.027	1.00	14.26	A	C
ATOM	1450	C	LEU A 186	18.982	60.931	31.778	1.00	14.41	A	C
ATOM	1451	O	LEU A 186	18.010	60.533	31.137	1.00	14.59	A	O
ATOM	1452	N	ILE A 187	19.905	61.734	31.255	1.00	14.30	A	N
ATOM	1453	CA	ILE A 187	19.854	62.140	29.849	1.00	14.33	A	C
ATOM	1454	CB	ILE A 187	19.485	63.633	29.667	1.00	13.17	A	C
ATOM	1455	CG2	ILE A 187	18.052	63.871	30.096	1.00	11.03	A	C
ATOM	1456	CG1	ILE A 187	20.446	64.523	30.453	1.00	12.17	A	C
ATOM	1457	CD1	ILE A 187	20.256	66.011	30.170	1.00	14.07	A	C
ATOM	1458	C	ILE A 187	21.197	61.890	29.168	1.00	14.64	A	C
ATOM	1459	O	ILE A 187	21.487	62.447	28.108	1.00	13.68	A	O
ATOM	1460	N	ALA A 188	22.008	61.035	29.781	1.00	15.37	A	N

Figure 6AA

ATOM	1461	CA	ALA A 188	23.322	60.707	29.243	1.00	16.86	A	C
ATOM	1462	CB	ALA A 188	23.965	59.607	30.075	1.00	15.17	A	C
ATOM	1463	C	ALA A 188	23.244	60.280	27.776	1.00	17.17	A	C
ATOM	1464	O	ALA A 188	23.979	60.797	26.938	1.00	15.74	A	O
ATOM	1465	N	GLN A 189	22.353	59.340	27.470	1.00	17.32	A	N
ATOM	1466	CA	GLN A 189	22.203	58.857	26.101	1.00	18.82	A	C
ATOM	1467	CB	GLN A 189	21.162	57.741	26.050	1.00	23.61	A	C
ATOM	1468	CG	GLN A 189	21.199	56.919	24.774	1.00	30.80	A	C
ATOM	1469	CD	GLN A 189	22.592	56.391	24.458	1.00	36.03	A	C
ATOM	1470	OE1	GLN A 189	23.321	55.942	25.347	1.00	36.39	A	O
ATOM	1471	NE2	GLN A 189	22.965	56.435	23.184	1.00	38.93	A	N
ATOM	1472	C	GLN A 189	21.794	59.995	25.169	1.00	17.49	A	C
ATOM	1473	O	GLN A 189	22.280	60.092	24.041	1.00	17.22	A	O
ATOM	1474	N	LYS A 190	20.894	60.851	25.639	1.00	17.64	A	N
ATOM	1475	CA	LYS A 190	20.449	61.986	24.841	1.00	16.93	A	C
ATOM	1476	CB	LYS A 190	19.338	62.750	25.565	1.00	17.51	A	C
ATOM	1477	CG	LYS A 190	17.998	62.038	25.578	1.00	21.98	A	C
ATOM	1478	CD	LYS A 190	17.462	61.852	24.166	1.00	25.56	A	C
ATOM	1479	CE	LYS A 190	16.064	61.256	24.188	1.00	30.02	A	C
ATOM	1480	NZ	LYS A 190	15.428	61.242	22.839	1.00	32.59	A	N
ATOM	1481	C	LYS A 190	21.624	62.919	24.572	1.00	17.12	A	C
ATOM	1482	O	LYS A 190	21.755	63.468	23.481	1.00	19.51	A	O
ATOM	1483	N	ILE A 191	22.483	63.097	25.570	1.00	15.92	A	N
ATOM	1484	CA	ILE A 191	23.643	63.963	25.413	1.00	15.53	A	C
ATOM	1485	CB	ILE A 191	24.348	64.194	26.769	1.00	16.74	A	C
ATOM	1486	CG2	ILE A 191	25.698	64.877	26.558	1.00	17.54	A	C
ATOM	1487	CG1	ILE A 191	23.447	65.048	27.668	1.00	16.67	A	C
ATOM	1488	CD1	ILE A 191	24.051	65.372	29.014	1.00	17.95	A	C
ATOM	1489	C	ILE A 191	24.615	63.350	24.413	1.00	17.26	A	C
ATOM	1490	O	ILE A 191	25.099	64.027	23.508	1.00	16.51	A	O
ATOM	1491	N	GLU A 192	24.892	62.062	24.566	1.00	17.44	A	N
ATOM	1492	CA	GLU A 192	25.792	61.387	23.643	1.00	18.42	A	C
ATOM	1493	CB	GLU A 192	25.937	59.909	24.007	1.00	20.11	A	C
ATOM	1494	CG	GLU A 192	26.885	59.159	23.085	1.00	26.76	A	C
ATOM	1495	CD	GLU A 192	26.872	57.665	23.322	1.00	32.66	A	C
ATOM	1496	OE1	GLU A 192	25.884	57.005	22.936	1.00	37.07	A	O
ATOM	1497	OE2	GLU A 192	27.846	57.152	23.906	1.00	37.14	A	O
ATOM	1498	C	GLU A 192	25.209	61.499	22.241	1.00	17.46	A	C
ATOM	1499	O	GLU A 192	25.912	61.804	21.283	1.00	15.49	A	O
ATOM	1500	N	GLY A 193	23.910	61.249	22.136	1.00	19.60	A	N
ATOM	1501	CA	GLY A 193	23.247	61.319	20.851	1.00	18.22	A	C
ATOM	1502	C	GLY A 193	23.344	62.683	20.199	1.00	20.98	A	C
ATOM	1503	O	GLY A 193	23.518	62.781	18.983	1.00	19.02	A	O
ATOM	1504	N	TYR A 194	23.230	63.742	20.997	1.00	19.99	A	N
ATOM	1505	CA	TYR A 194	23.302	65.087	20.450	1.00	19.30	A	C
ATOM	1506	CB	TYR A 194	23.081	66.136	21.545	1.00	21.79	A	C
ATOM	1507	CG	TYR A 194	23.038	67.544	20.997	1.00	22.73	A	C
ATOM	1508	CD1	TYR A 194	21.822	68.170	20.713	1.00	25.33	A	C
ATOM	1509	CE1	TYR A 194	21.784	69.442	20.133	1.00	26.15	A	C
ATOM	1510	CD2	TYR A 194	24.216	68.226	20.692	1.00	24.23	A	C
ATOM	1511	CE2	TYR A 194	24.190	69.493	20.109	1.00	23.26	A	C
ATOM	1512	CZ	TYR A 194	22.973	70.092	19.830	1.00	25.26	A	C
ATOM	1513	OH	TYR A 194	22.941	71.327	19.222	1.00	28.86	A	O
ATOM	1514	C	TYR A 194	24.660	65.313	19.788	1.00	20.71	A	C
ATOM	1515	O	TYR A 194	24.738	65.782	18.653	1.00	18.94	A	O
ATOM	1516	N	PHE A 195	25.732	64.980	20.496	1.00	19.26	A	N
ATOM	1517	CA	PHE A 195	27.062	65.169	19.942	1.00	21.38	A	C
ATOM	1518	CB	PHE A 195	28.126	64.952	21.020	1.00	20.73	A	C

Figure 6BB

ATOM	1519	CG PHE A 195	28.251	66.103	21.971	1.00	20.61	A	C
ATOM	1520	CD1 PHE A 195	27.488	66.158	23.131	1.00	19.23	A	C
ATOM	1521	CD2 PHE A 195	29.097	67.165	21.673	1.00	21.43	A	C
ATOM	1522	CE1 PHE A 195	27.565	67.263	23.986	1.00	20.28	A	C
ATOM	1523	CE2 PHE A 195	29.183	68.273	22.515	1.00	18.52	A	C
ATOM	1524	CZ PHE A 195	28.416	68.323	23.673	1.00	19.62	A	C
ATOM	1525	C PHE A 195	27.352	64.290	18.730	1.00	21.31	A	C
ATOM	1526	O PHE A 195	28.045	64.713	17.806	1.00	21.45	A	O
ATOM	1527	N MET A 196	26.822	63.072	18.720	1.00	22.22	A	N
ATOM	1528	CA MET A 196	27.059	62.190	17.584	1.00	24.31	A	C
ATOM	1529	CB MET A 196	26.655	60.749	17.915	1.00	25.67	A	C
ATOM	1530	CG MET A 196	27.528	60.084	18.971	1.00	26.49	A	C
ATOM	1531	SD MET A 196	29.295	60.205	18.575	1.00	30.70	A	S
ATOM	1532	CE MET A 196	29.481	58.865	17.401	1.00	31.02	A	C
ATOM	1533	C MET A 196	26.293	62.667	16.354	1.00	25.42	A	C
ATOM	1534	O MET A 196	26.734	62.451	15.227	1.00	23.73	A	O
ATOM	1535	N GLY A 197	25.157	63.328	16.571	1.00	25.90	A	N
ATOM	1536	CA GLY A 197	24.361	63.805	15.451	1.00	26.44	A	C
ATOM	1537	C GLY A 197	24.566	65.258	15.054	1.00	29.06	A	C
ATOM	1538	O GLY A 197	24.129	65.681	13.981	1.00	30.51	A	O
ATOM	1539	N HIS A 198	25.233	66.030	15.903	1.00	27.75	A	N
ATOM	1540	CA HIS A 198	25.456	67.441	15.612	1.00	28.55	A	C
ATOM	1541	CB HIS A 198	24.824	68.293	16.705	1.00	28.88	A	C
ATOM	1542	CG HIS A 198	23.330	68.234	16.718	1.00	26.12	A	C
ATOM	1543	CD2 HIS A 198	22.470	67.535	17.495	1.00	26.28	A	C
ATOM	1544	ND1 HIS A 198	22.553	68.943	15.828	1.00	27.58	A	N
ATOM	1545	CE1 HIS A 198	21.277	68.687	16.060	1.00	27.01	A	C
ATOM	1546	NE2 HIS A 198	21.200	67.835	17.066	1.00	26.83	A	N
ATOM	1547	C HIS A 198	26.923	67.792	15.457	1.00	30.79	A	C
ATOM	1548	O HIS A 198	27.270	68.941	15.180	1.00	32.29	A	O
ATOM	1549	N PHE A 199	27.785	66.800	15.644	1.00	30.80	A	N
ATOM	1550	CA PHE A 199	29.220	66.999	15.498	1.00	33.66	A	C
ATOM	1551	CB PHE A 199	29.906	67.052	16.866	1.00	35.46	A	C
ATOM	1552	CG PHE A 199	29.565	68.275	17.676	1.00	39.04	A	C
ATOM	1553	CD1 PHE A 199	28.281	68.463	18.182	1.00	39.24	A	C
ATOM	1554	CD2 PHE A 199	30.537	69.237	17.945	1.00	40.88	A	C
ATOM	1555	CE1 PHE A 199	27.968	69.591	18.944	1.00	40.57	A	C
ATOM	1556	CE2 PHE A 199	30.236	70.370	18.707	1.00	42.99	A	C
ATOM	1557	CZ PHE A 199	28.948	70.547	19.207	1.00	40.25	A	C
ATOM	1558	C PHE A 199	29.790	65.855	14.673	1.00	32.87	A	C
ATOM	1559	O PHE A 199	29.170	64.798	14.547	1.00	32.00	A	O
ATOM	1560	N ALA A 200	30.972	66.064	14.108	1.00	34.09	A	N
ATOM	1561	CA ALA A 200	31.605	65.040	13.288	1.00	34.34	A	C
ATOM	1562	CB ALA A 200	32.381	65.690	12.154	1.00	35.22	A	C
ATOM	1563	C ALA A 200	32.532	64.168	14.119	1.00	34.93	A	C
ATOM	1564	O ALA A 200	33.704	63.996	13.782	1.00	35.08	A	O
ATOM	1565	N LEU A 201	32.012	63.618	15.209	1.00	34.85	A	N
ATOM	1566	CA LEU A 201	32.821	62.765	16.067	1.00	34.78	A	C
ATOM	1567	CB LEU A 201	32.210	62.690	17.472	1.00	35.79	A	C
ATOM	1568	CG LEU A 201	32.120	64.015	18.231	1.00	35.31	A	C
ATOM	1569	CD1 LEU A 201	31.513	63.760	19.603	1.00	35.13	A	C
ATOM	1570	CD2 LEU A 201	33.498	64.641	18.365	1.00	35.35	A	C
ATOM	1571	C LEU A 201	32.906	61.366	15.462	1.00	34.07	A	C
ATOM	1572	O LEU A 201	31.887	60.773	15.104	1.00	35.38	A	O
ATOM	1573	N PRO A 202	34.128	60.817	15.344	1.00	33.66	A	N
ATOM	1574	CD PRO A 202	35.409	61.457	15.698	1.00	32.39	A	C
ATOM	1575	CA PRO A 202	34.353	59.475	14.779	1.00	32.85	A	C
ATOM	1576	CB PRO A 202	35.872	59.404	14.655	1.00	33.65	A	C

Figure 6CC

ATOM	1577	CG	PRO A 202	36.343	60.272	15.793	1.00	34.48	A	C
ATOM	1578	C	PRO A 202	33.790	58.355	15.649	1.00	33.17	A	C
ATOM	1579	O	PRO A 202	33.402	57.297	15.151	1.00	30.49	A	O
ATOM	1580	N	THR A 203	33.773	58.599	16.956	1.00	31.52	A	N
ATOM	1581	CA	THR A 203	33.248	57.634	17.919	1.00	31.65	A	C
ATOM	1582	CB	THR A 203	34.338	56.676	18.426	1.00	32.68	A	C
ATOM	1583	OG1	THR A 203	35.425	57.424	18.979	1.00	35.29	A	O
ATOM	1584	CG2	THR A 203	34.828	55.781	17.302	1.00	37.32	A	C
ATOM	1585	C	THR A 203	32.688	58.386	19.117	1.00	30.86	A	C
ATOM	1586	O	THR A 203	33.168	59.451	19.461	1.00	27.18	A	O
ATOM	1587	N	PRO A 204	31.671	57.817	19.775	1.00	29.89	A	N
ATOM	1588	CD	PRO A 204	31.126	56.473	19.492	1.00	29.77	A	C
ATOM	1589	CA	PRO A 204	31.061	58.463	20.945	1.00	28.24	A	C
ATOM	1590	CB	PRO A 204	30.047	57.449	21.462	1.00	29.94	A	C
ATOM	1591	CG	PRO A 204	30.111	56.276	20.568	1.00	30.77	A	C
ATOM	1592	C	PRO A 204	32.096	58.803	22.007	1.00	25.79	A	C
ATOM	1593	O	PRO A 204	33.032	58.041	22.269	1.00	25.89	A	O
ATOM	1594	N	PRO A 205	31.961	59.981	22.626	1.00	23.44	A	N
ATOM	1595	CD	PRO A 205	30.990	61.063	22.358	1.00	24.13	A	C
ATOM	1596	CA	PRO A 205	32.915	60.378	23.670	1.00	22.08	A	C
ATOM	1597	CB	PRO A 205	32.600	61.852	23.873	1.00	24.52	A	C
ATOM	1598	CG	PRO A 205	31.125	61.932	23.587	1.00	24.69	A	C
ATOM	1599	C	PRO A 205	32.705	59.546	24.927	1.00	19.36	A	C
ATOM	1600	O	PRO A 205	31.637	58.961	25.125	1.00	18.49	A	O
ATOM	1601	N	LEU A 206	33.722	59.492	25.776	1.00	18.43	A	N
ATOM	1602	CA	LEU A 206	33.626	58.762	27.037	1.00	18.50	A	C
ATOM	1603	CB	LEU A 206	35.018	58.513	27.619	1.00	20.51	A	C
ATOM	1604	CG	LEU A 206	35.095	57.847	28.996	1.00	22.39	A	C
ATOM	1605	CD1	LEU A 206	34.491	56.439	28.946	1.00	22.36	A	C
ATOM	1606	CD2	LEU A 206	36.552	57.791	29.435	1.00	24.60	A	C
ATOM	1607	C	LEU A 206	32.822	59.615	28.017	1.00	18.04	A	C
ATOM	1608	O	LEU A 206	33.163	60.770	28.253	1.00	16.95	A	O
ATOM	1609	N	LEU A 207	31.746	59.049	28.554	1.00	16.00	A	N
ATOM	1610	CA	LEU A 207	30.909	59.748	29.521	1.00	17.26	A	C
ATOM	1611	CB	LEU A 207	29.433	59.412	29.304	1.00	18.06	A	C
ATOM	1612	CG	LEU A 207	28.664	60.071	28.158	1.00	24.42	A	C
ATOM	1613	CD1	LEU A 207	29.448	59.984	26.863	1.00	25.51	A	C
ATOM	1614	CD2	LEU A 207	27.310	59.373	28.012	1.00	24.48	A	C
ATOM	1615	C	LEU A 207	31.318	59.314	30.922	1.00	16.98	A	C
ATOM	1616	O	LEU A 207	31.388	58.120	31.215	1.00	18.46	A	O
ATOM	1617	N	ILE A 208	31.592	60.276	31.792	1.00	13.50	A	N
ATOM	1618	CA	ILE A 208	31.983	59.940	33.150	1.00	14.98	A	C
ATOM	1619	CB	ILE A 208	33.112	60.864	33.659	1.00	16.20	A	C
ATOM	1620	CG2	ILE A 208	33.468	60.509	35.101	1.00	16.97	A	C
ATOM	1621	CG1	ILE A 208	34.345	60.722	32.763	1.00	16.39	A	C
ATOM	1622	CD1	ILE A 208	34.984	59.333	32.784	1.00	17.91	A	C
ATOM	1623	C	ILE A 208	30.771	60.069	34.057	1.00	15.79	A	C
ATOM	1624	O	ILE A 208	30.193	61.150	34.194	1.00	15.47	A	O
ATOM	1625	N	HIS A 209	30.390	58.951	34.669	1.00	15.02	A	N
ATOM	1626	CA	HIS A 209	29.238	58.895	35.567	1.00	14.90	A	C
ATOM	1627	CB	HIS A 209	28.502	57.569	35.333	1.00	17.49	A	C
ATOM	1628	CG	HIS A 209	27.271	57.387	36.169	1.00	19.71	A	C
ATOM	1629	CD2	HIS A 209	27.116	57.192	37.500	1.00	20.19	A	C
ATOM	1630	ND1	HIS A 209	26.004	57.336	35.625	1.00	21.72	A	N
ATOM	1631	CE1	HIS A 209	25.123	57.114	36.584	1.00	17.63	A	C
ATOM	1632	NE2	HIS A 209	25.772	57.023	37.732	1.00	22.48	A	N
ATOM	1633	C	HIS A 209	29.744	59.006	37.011	1.00	13.24	A	C
ATOM	1634	O	HIS A 209	30.546	58.191	37.458	1.00	13.01	A	O

Figure 6DD

ATOM	1635	N	SER A 210	29.275	60.018	37.734	1.00	12.05	A	N
ATOM	1636	CA	SER A 210	29.709	60.238	39.109	1.00	11.23	A	C
ATOM	1637	CB	SER A 210	28.977	61.442	39.701	1.00	11.83	A	C
ATOM	1638	OG	SER A 210	29.140	62.587	38.881	1.00	12.14	A	O
ATOM	1639	C	SER A 210	29.529	59.031	40.032	1.00	12.17	A	C
ATOM	1640	O	SER A 210	30.370	58.774	40.890	1.00	11.45	A	O
ATOM	1641	N	GLY A 211	28.432	58.303	39.861	1.00	13.88	A	N
ATOM	1642	CA	GLY A 211	28.178	57.142	40.698	1.00	15.08	A	C
ATOM	1643	C	GLY A 211	29.147	56.004	40.446	1.00	16.38	A	C
ATOM	1644	O	GLY A 211	29.744	55.461	41.378	1.00	15.04	A	O
ATOM	1645	N	ASP A 212	29.311	55.630	39.183	1.00	15.98	A	N
ATOM	1646	CA	ASP A 212	30.231	54.552	38.860	1.00	16.82	A	C
ATOM	1647	CB	ASP A 212	30.208	54.264	37.365	1.00	19.63	A	C
ATOM	1648	CG	ASP A 212	28.847	53.798	36.895	1.00	23.61	A	C
ATOM	1649	OD1	ASP A 212	28.145	53.131	37.692	1.00	25.34	A	O
ATOM	1650	OD2	ASP A 212	28.486	54.086	35.738	1.00	21.50	A	O
ATOM	1651	C	ASP A 212	31.638	54.917	39.303	1.00	16.04	A	C
ATOM	1652	O	ASP A 212	32.375	54.073	39.807	1.00	15.40	A	O
ATOM	1653	N	ALA A 213	31.994	56.185	39.135	1.00	12.67	A	N
ATOM	1654	CA	ALA A 213	33.317	56.667	39.517	1.00	14.11	A	C
ATOM	1655	CB	ALA A 213	33.493	58.126	39.076	1.00	11.29	A	C
ATOM	1656	C	ALA A 213	33.560	56.540	41.022	1.00	12.53	A	C
ATOM	1657	O	ALA A 213	34.607	56.049	41.452	1.00	13.00	A	O
ATOM	1658	N	ILE A 214	32.603	56.973	41.834	1.00	13.61	A	N
ATOM	1659	CA	ILE A 214	32.808	56.875	43.271	1.00	11.94	A	C
ATOM	1660	CB	ILE A 214	31.748	57.701	44.065	1.00	12.63	A	C
ATOM	1661	CG2	ILE A 214	30.367	57.085	43.938	1.00	15.04	A	C
ATOM	1662	CG1	ILE A 214	32.174	57.795	45.530	1.00	12.30	A	C
ATOM	1663	CD1	ILE A 214	31.429	58.832	46.317	1.00	11.04	A	C
ATOM	1664	C	ILE A 214	32.855	55.405	43.719	1.00	13.71	A	C
ATOM	1665	O	ILE A 214	33.595	55.061	44.643	1.00	12.81	A	O
ATOM	1666	N	VAL A 215	32.096	54.538	43.053	1.00	13.33	A	N
ATOM	1667	CA	VAL A 215	32.118	53.109	43.387	1.00	13.18	A	C
ATOM	1668	CB	VAL A 215	31.165	52.293	42.474	1.00	13.68	A	C
ATOM	1669	CG1	VAL A 215	31.481	50.792	42.579	1.00	14.80	A	C
ATOM	1670	CG2	VAL A 215	29.707	52.537	42.876	1.00	10.93	A	C
ATOM	1671	C	VAL A 215	33.550	52.599	43.190	1.00	15.07	A	C
ATOM	1672	O	VAL A 215	34.115	51.933	44.065	1.00	12.73	A	O
ATOM	1673	N	GLU A 216	34.136	52.924	42.039	1.00	13.86	A	N
ATOM	1674	CA	GLU A 216	35.503	52.511	41.738	1.00	17.89	A	C
ATOM	1675	CB	GLU A 216	35.973	53.120	40.414	1.00	21.27	A	C
ATOM	1676	CG	GLU A 216	35.112	52.807	39.204	1.00	27.92	A	C
ATOM	1677	CD	GLU A 216	35.637	53.492	37.941	1.00	34.02	A	C
ATOM	1678	OE1	GLU A 216	36.824	53.286	37.609	1.00	31.93	A	O
ATOM	1679	OE2	GLU A 216	34.868	54.236	37.285	1.00	35.33	A	O
ATOM	1680	C	GLU A 216	36.447	52.971	42.846	1.00	17.32	A	C
ATOM	1681	O	GLU A 216	37.245	52.188	43.363	1.00	16.80	A	O
ATOM	1682	N	TYR A 217	36.352	54.248	43.204	1.00	16.20	A	N
ATOM	1683	CA	TYR A 217	37.200	54.818	44.244	1.00	16.23	A	C
ATOM	1684	CB	TYR A 217	36.900	56.308	44.432	1.00	14.73	A	C
ATOM	1685	CG	TYR A 217	37.693	56.942	45.557	1.00	17.55	A	C
ATOM	1686	CD1	TYR A 217	39.053	57.202	45.418	1.00	18.17	A	C
ATOM	1687	CE1	TYR A 217	39.797	57.738	46.475	1.00	18.51	A	C
ATOM	1688	CD2	TYR A 217	37.089	57.234	46.780	1.00	16.61	A	C
ATOM	1689	CE2	TYR A 217	37.815	57.765	47.836	1.00	17.74	A	C
ATOM	1690	CZ	TYR A 217	39.168	58.014	47.680	1.00	19.47	A	C
ATOM	1691	OH	TYR A 217	39.891	58.526	48.735	1.00	18.42	A	O
ATOM	1692	C	TYR A 217	37.041	54.116	45.584	1.00	16.31	A	C

Figure 6EE

ATOM	1693	O	TYR A 217	38.028	53.715	46.199	1.00	16.78	A	O
ATOM	1694	N	LEU A 218	35.798	53.995	46.045	1.00	15.56	A	N
ATOM	1695	CA	LEU A 218	35.509	53.353	47.324	1.00	18.16	A	C
ATOM	1696	CB	LEU A 218	33.993	53.344	47.575	1.00	15.21	A	C
ATOM	1697	CG	LEU A 218	33.321	54.705	47.799	1.00	15.27	A	C
ATOM	1698	CD1	LEU A 218	31.798	54.546	47.756	1.00	14.34	A	C
ATOM	1699	CD2	LEU A 218	33.775	55.294	49.129	1.00	13.25	A	C
ATOM	1700	C	LEU A 218	36.058	51.926	47.402	1.00	18.45	A	C
ATOM	1701	O	LEU A 218	36.648	51.531	48.409	1.00	18.06	A	O
ATOM	1702	N	GLN A 219	35.871	51.150	46.341	1.00	17.77	A	N
ATOM	1703	CA	GLN A 219	36.367	49.778	46.335	1.00	19.66	A	C
ATOM	1704	CB	GLN A 219	36.042	49.097	45.005	1.00	18.42	A	C
ATOM	1705	CG	GLN A 219	34.577	49.147	44.645	1.00	17.80	A	C
ATOM	1706	CD	GLN A 219	34.282	48.496	43.318	1.00	17.89	A	C
ATOM	1707	OE1	GLN A 219	35.071	48.596	42.372	1.00	18.96	A	O
ATOM	1708	NE2	GLN A 219	33.134	47.837	43.228	1.00	13.87	A	N
ATOM	1709	C	GLN A 219	37.876	49.740	46.567	1.00	19.63	A	C
ATOM	1710	O	GLN A 219	38.368	48.964	47.380	1.00	19.95	A	O
ATOM	1711	N	GLN A 220	38.605	50.593	45.859	1.00	21.16	A	N
ATOM	1712	CA	GLN A 220	40.057	50.621	45.992	1.00	24.11	A	C
ATOM	1713	CB	GLN A 220	40.681	51.372	44.811	1.00	25.85	A	C
ATOM	1714	CG	GLN A 220	42.197	51.445	44.885	1.00	34.94	A	C
ATOM	1715	CD	GLN A 220	42.830	51.975	43.615	1.00	40.03	A	C
ATOM	1716	OE1	GLN A 220	44.050	52.152	43.548	1.00	44.37	A	O
ATOM	1717	NE2	GLN A 220	42.010	52.227	42.598	1.00	41.95	A	N
ATOM	1718	C	GLN A 220	40.534	51.242	47.304	1.00	22.63	A	C
ATOM	1719	O	GLN A 220	41.275	50.617	48.062	1.00	21.00	A	O
ATOM	1720	N	LYS A 221	40.104	52.472	47.564	1.00	21.71	A	N
ATOM	1721	CA	LYS A 221	40.503	53.194	48.770	1.00	22.37	A	C
ATOM	1722	CB	LYS A 221	39.830	54.570	48.795	1.00	21.53	A	C
ATOM	1723	CG	LYS A 221	39.984	55.325	50.111	1.00	25.31	A	C
ATOM	1724	CD	LYS A 221	41.443	55.615	50.439	1.00	26.19	A	C
ATOM	1725	CE	LYS A 221	41.579	56.244	51.818	1.00	29.00	A	C
ATOM	1726	NZ	LYS A 221	42.999	56.511	52.159	1.00	29.71	A	N
ATOM	1727	C	LYS A 221	40.221	52.464	50.084	1.00	22.42	A	C
ATOM	1728	O	LYS A 221	41.090	52.376	50.953	1.00	21.37	A	O
ATOM	1729	N	TYR A 222	39.005	51.950	50.229	1.00	20.94	A	N
ATOM	1730	CA	TYR A 222	38.616	51.250	51.442	1.00	21.75	A	C
ATOM	1731	CB	TYR A 222	37.251	51.762	51.903	1.00	22.02	A	C
ATOM	1732	CG	TYR A 222	37.277	53.247	52.204	1.00	20.42	A	C
ATOM	1733	CD1	TYR A 222	36.737	54.178	51.314	1.00	18.91	A	C
ATOM	1734	CE1	TYR A 222	36.866	55.549	51.545	1.00	20.88	A	C
ATOM	1735	CD2	TYR A 222	37.938	53.725	53.336	1.00	21.77	A	C
ATOM	1736	CE2	TYR A 222	38.074	55.080	53.577	1.00	19.97	A	C
ATOM	1737	CZ	TYR A 222	37.540	55.988	52.679	1.00	20.71	A	C
ATOM	1738	OH	TYR A 222	37.705	57.330	52.909	1.00	16.95	A	O
ATOM	1739	C	TYR A 222	38.637	49.731	51.350	1.00	21.67	A	C
ATOM	1740	O	TYR A 222	38.112	49.040	52.226	1.00	20.83	A	O
ATOM	1741	N	ALA A 223	39.264	49.219	50.292	1.00	21.20	A	N
ATOM	1742	CA	ALA A 223	39.408	47.774	50.077	1.00	22.92	A	C
ATOM	1743	CB	ALA A 223	40.466	47.204	50.984	1.00	23.23	A	C
ATOM	1744	C	ALA A 223	38.105	47.055	50.330	1.00	23.19	A	C
ATOM	1745	O	ALA A 223	38.024	46.162	51.180	1.00	20.95	A	O
ATOM	1746	N	LEU A 224	37.088	47.426	49.565	1.00	25.19	A	N
ATOM	1747	CA	LEU A 224	35.759	46.839	49.692	1.00	24.53	A	C
ATOM	1748	CB	LEU A 224	34.703	47.937	49.609	1.00	22.99	A	C
ATOM	1749	CG	LEU A 224	34.869	49.090	50.607	1.00	21.68	A	C
ATOM	1750	CD1	LEU A 224	33.731	50.099	50.443	1.00	22.66	A	C

Figure 6FF

ATOM	1751	CD2 LEU A 224	34.875	48.531	52.022	1.00	23.83	A	C
ATOM	1752	C LEU A 224	35.576	45.852	48.551	1.00	24.10	A	C
ATOM	1753	O LEU A 224	35.569	46.259	47.400	1.00	22.11	A	O
ATOM	1754	N LYS A 225	35.368	44.572	48.866	1.00	26.47	A	N
ATOM	1755	CA LYS A 225	35.212	43.532	47.846	1.00	25.75	A	C
ATOM	1756	CB LYS A 225	35.880	42.233	48.331	1.00	26.74	A	C
ATOM	1757	CG LYS A 225	37.358	42.380	48.669	1.00	28.32	A	C
ATOM	1758	CD LYS A 225	38.185	42.652	47.421	1.00	31.42	A	C
ATOM	1759	CE LYS A 225	38.157	41.461	46.478	1.00	32.69	A	C
ATOM	1760	NZ LYS A 225	39.003	41.698	45.284	1.00	34.46	A	N
ATOM	1761	C LYS A 225	33.803	43.213	47.340	1.00	24.95	A	C
ATOM	1762	O LYS A 225	33.568	42.125	46.819	1.00	29.54	A	O
ATOM	1763	N ASN A 226	32.870	44.143	47.489	1.00	23.13	A	N
ATOM	1764	CA ASN A 226	31.498	43.938	47.019	1.00	20.01	A	C
ATOM	1765	CB ASN A 226	31.469	43.729	45.500	1.00	19.42	A	C
ATOM	1766	CG ASN A 226	32.287	44.755	44.751	1.00	23.12	A	C
ATOM	1767	OD1 ASN A 226	33.342	44.439	44.190	1.00	20.38	A	O
ATOM	1768	ND2 ASN A 226	31.814	45.995	44.743	1.00	16.65	A	N
ATOM	1769	C ASN A 226	30.800	42.740	47.662	1.00	21.21	A	C
ATOM	1770	O ASN A 226	30.086	41.999	46.981	1.00	18.29	A	O
ATOM	1771	N ASN A 227	30.984	42.551	48.963	1.00	22.29	A	N
ATOM	1772	CA ASN A 227	30.362	41.421	49.641	1.00	22.96	A	C
ATOM	1773	CB ASN A 227	31.438	40.462	50.163	1.00	22.46	A	C
ATOM	1774	CG ASN A 227	32.503	41.165	50.982	1.00	21.07	A	C
ATOM	1775	OD1 ASN A 227	32.223	42.137	51.679	1.00	19.99	A	O
ATOM	1776	ND2 ASN A 227	33.733	40.659	50.916	1.00	19.44	A	N
ATOM	1777	C ASN A 227	29.428	41.805	50.783	1.00	24.57	A	C
ATOM	1778	O ASN A 227	29.198	41.005	51.690	1.00	21.91	A	O
ATOM	1779	N ALA A 228	28.891	43.021	50.741	1.00	23.23	A	N
ATOM	1780	CA ALA A 228	27.969	43.481	51.776	1.00	26.14	A	C
ATOM	1781	CB ALA A 228	27.806	45.001	51.699	1.00	22.82	A	C
ATOM	1782	C ALA A 228	26.611	42.793	51.596	1.00	26.93	A	C
ATOM	1783	O ALA A 228	26.405	42.077	50.619	1.00	26.75	A	O
ATOM	1784	N CYS A 229	25.698	43.016	52.541	1.00	29.94	A	N
ATOM	1785	CA CYS A 229	24.359	42.425	52.508	1.00	34.05	A	C
ATOM	1786	CB CYS A 229	23.438	43.143	53.508	1.00	36.45	A	C
ATOM	1787	SG CYS A 229	23.886	42.897	55.243	1.00	48.21	A	S
ATOM	1788	C CYS A 229	23.730	42.476	51.124	1.00	35.31	A	C
ATOM	1789	O CYS A 229	23.882	43.451	50.399	1.00	35.27	A	O
ATOM	1790	N THR A 230	23.030	41.412	50.757	1.00	38.04	A	N
ATOM	1791	CA THR A 230	22.378	41.380	49.466	1.00	40.97	A	C
ATOM	1792	CB THR A 230	21.965	39.958	49.076	1.00	42.40	A	C
ATOM	1793	OG1 THR A 230	21.273	39.335	50.163	1.00	45.09	A	O
ATOM	1794	CG2 THR A 230	23.190	39.148	48.730	1.00	43.15	A	C
ATOM	1795	C THR A 230	21.150	42.269	49.476	1.00	41.97	A	C
ATOM	1796	O THR A 230	20.887	42.971	48.493	1.00	42.37	A	O
ATOM	1797	N PHE A 231	20.376	42.232	50.552	1.00	42.74	A	N
ATOM	1798	CA PHE A 231	19.230	43.108	50.576	1.00	43.96	A	C
ATOM	1799	CB PHE A 231	17.938	42.321	50.366	1.00	49.35	A	C
ATOM	1800	CG PHE A 231	17.721	41.990	48.907	1.00	55.66	A	C
ATOM	1801	CD1 PHE A 231	18.494	41.004	48.306	1.00	58.70	A	C
ATOM	1802	CD2 PHE A 231	16.903	42.785	48.088	1.00	58.59	A	C
ATOM	1803	CE1 PHE A 231	18.483	40.801	46.922	1.00	60.69	A	C
ATOM	1804	CE2 PHE A 231	16.879	42.597	46.701	1.00	60.58	A	C
ATOM	1805	CZ PHE A 231	17.668	41.604	46.113	1.00	60.92	A	C
ATOM	1806	C PHE A 231	19.335	43.912	51.838	1.00	40.83	A	C
ATOM	1807	O PHE A 231	18.811	43.567	52.886	1.00	42.69	A	O
ATOM	1808	N PRO A 232	20.153	44.975	51.722	1.00	35.76	A	N

Figure 6GG

ATOM	1809	CD	PRO A 232	20.672	45.196	50.347	1.00	35.27	A	C
ATOM	1810	CA	PRO A 232	20.579	46.028	52.651	1.00	32.93	A	C
ATOM	1811	CB	PRO A 232	21.689	46.764	51.874	1.00	32.41	A	C
ATOM	1812	CG	PRO A 232	21.363	46.497	50.424	1.00	32.47	A	C
ATOM	1813	C	PRO A 232	19.457	46.929	53.137	1.00	29.06	A	C
ATOM	1814	O	PRO A 232	18.456	47.146	52.452	1.00	27.86	A	O
ATOM	1815	N	LYS A 233	19.630	47.440	54.346	1.00	27.89	A	N
ATOM	1816	CA	LYS A 233	18.645	48.314	54.943	1.00	25.66	A	C
ATOM	1817	CB	LYS A 233	18.682	48.188	56.464	1.00	29.61	A	C
ATOM	1818	CG	LYS A 233	18.178	46.843	56.973	1.00	34.08	A	C
ATOM	1819	CD	LYS A 233	18.086	46.829	58.491	1.00	40.01	A	C
ATOM	1820	CE	LYS A 233	19.454	46.996	59.139	1.00	41.92	A	C
ATOM	1821	NZ	LYS A 233	19.351	47.038	60.626	1.00	44.78	A	N
ATOM	1822	C	LYS A 233	18.945	49.739	54.524	1.00	23.25	A	C
ATOM	1823	O	LYS A 233	20.042	50.248	54.738	1.00	20.72	A	O
ATOM	1824	N	VAL A 234	17.959	50.374	53.909	1.00	21.94	A	N
ATOM	1825	CA	VAL A 234	18.122	51.742	53.457	1.00	18.96	A	C
ATOM	1826	CB	VAL A 234	18.171	51.809	51.927	1.00	18.07	A	C
ATOM	1827	CG1	VAL A 234	18.407	53.242	51.484	1.00	15.91	A	C
ATOM	1828	CG2	VAL A 234	19.265	50.884	51.403	1.00	19.03	A	C
ATOM	1829	C	VAL A 234	16.982	52.622	53.945	1.00	19.45	A	C
ATOM	1830	O	VAL A 234	15.810	52.291	53.775	1.00	18.84	A	O
ATOM	1831	N	GLU A 235	17.332	53.749	54.550	1.00	18.70	A	N
ATOM	1832	CA	GLU A 235	16.333	54.682	55.044	1.00	19.65	A	C
ATOM	1833	CB	GLU A 235	16.584	55.029	56.513	1.00	20.87	A	C
ATOM	1834	CG	GLU A 235	16.619	53.849	57.461	1.00	24.25	A	C
ATOM	1835	CD	GLU A 235	16.762	54.287	58.908	1.00	26.71	A	C
ATOM	1836	OE1	GLU A 235	16.924	53.412	59.782	1.00	30.95	A	O
ATOM	1837	OE2	GLU A 235	16.710	55.509	59.174	1.00	28.58	A	O
ATOM	1838	C	GLU A 235	16.433	55.957	54.226	1.00	19.63	A	C
ATOM	1839	O	GLU A 235	17.522	56.339	53.793	1.00	19.08	A	O
ATOM	1840	N	PHE A 236	15.295	56.608	54.008	1.00	16.22	A	N
ATOM	1841	CA	PHE A 236	15.281	57.850	53.260	1.00	15.50	A	C
ATOM	1842	CB	PHE A 236	14.454	57.703	51.985	1.00	16.22	A	C
ATOM	1843	CG	PHE A 236	15.028	56.712	51.008	1.00	16.49	A	C
ATOM	1844	CD1	PHE A 236	14.734	55.352	51.117	1.00	14.80	A	C
ATOM	1845	CD2	PHE A 236	15.906	57.131	50.011	1.00	16.20	A	C
ATOM	1846	CE1	PHE A 236	15.311	54.423	50.249	1.00	16.35	A	C
ATOM	1847	CE2	PHE A 236	16.488	56.213	49.140	1.00	16.85	A	C
ATOM	1848	CZ	PHE A 236	16.191	54.857	49.258	1.00	18.08	A	C
ATOM	1849	C	PHE A 236	14.725	58.953	54.150	1.00	17.81	A	C
ATOM	1850	O	PHE A 236	13.669	58.808	54.771	1.00	17.48	A	O
ATOM	1851	N	HIS A 237	15.473	60.043	54.238	1.00	14.01	A	N
ATOM	1852	CA	HIS A 237	15.077	61.178	55.050	1.00	13.85	A	C
ATOM	1853	CB	HIS A 237	15.976	61.261	56.282	1.00	16.76	A	C
ATOM	1854	CG	HIS A 237	15.871	60.068	57.183	1.00	20.30	A	C
ATOM	1855	CD2	HIS A 237	16.529	58.884	57.176	1.00	22.69	A	C
ATOM	1856	ND1	HIS A 237	14.963	59.994	58.216	1.00	21.64	A	N
ATOM	1857	CE1	HIS A 237	15.065	58.816	58.808	1.00	24.58	A	C
ATOM	1858	NE2	HIS A 237	16.008	58.123	58.196	1.00	24.02	A	N
ATOM	1859	C	HIS A 237	15.240	62.421	54.190	1.00	12.98	A	C
ATOM	1860	O	HIS A 237	15.960	62.402	53.199	1.00	14.24	A	O
ATOM	1861	N	ALA A 238	14.573	63.500	54.571	1.00	14.25	A	N
ATOM	1862	CA	ALA A 238	14.656	64.745	53.822	1.00	14.74	A	C
ATOM	1863	CB	ALA A 238	13.867	64.622	52.523	1.00	13.87	A	C
ATOM	1864	C	ALA A 238	14.105	65.889	54.662	1.00	16.80	A	C
ATOM	1865	O	ALA A 238	13.416	65.662	55.659	1.00	13.41	A	O
ATOM	1866	N	SER A 239	14.419	67.118	54.265	1.00	16.83	A	N

Figure 6HH

ATOM	1867	CA	SER A 239	13.934	68.289	54.982	1.00	15.86	A	C
ATOM	1868	CB	SER A 239	14.874	69.472	54.749	1.00	17.78	A	C
ATOM	1869	OG	SER A 239	15.235	69.570	53.382	1.00	15.31	A	O
ATOM	1870	C	SER A 239	12.526	68.628	54.501	1.00	18.27	A	C
ATOM	1871	O	SER A 239	11.851	69.475	55.081	1.00	19.09	A	O
ATOM	1872	N	GLY A 240	12.093	67.950	53.440	1.00	19.12	A	N
ATOM	1873	CA	GLY A 240	10.764	68.172	52.891	1.00	18.85	A	C
ATOM	1874	C	GLY A 240	10.400	67.108	51.872	1.00	20.08	A	C
ATOM	1875	O	GLY A 240	11.262	66.321	51.462	1.00	19.84	A	O
ATOM	1876	N	ASP A 241	9.134	67.065	51.464	1.00	17.58	A	N
ATOM	1877	CA	ASP A 241	8.692	66.077	50.481	1.00	19.46	A	C
ATOM	1878	CB	ASP A 241	9.150	66.501	49.083	1.00	21.27	A	C
ATOM	1879	CG	ASP A 241	8.429	67.738	48.587	1.00	23.85	A	C
ATOM	1880	OD1	ASP A 241	7.247	67.610	48.206	1.00	26.32	A	O
ATOM	1881	OD2	ASP A 241	9.038	68.833	48.591	1.00	21.42	A	O
ATOM	1882	C	ASP A 241	9.257	64.694	50.803	1.00	16.99	A	C
ATOM	1883	O	ASP A 241	9.731	63.987	49.913	1.00	17.49	A	O
ATOM	1884	N	VAL A 242	9.208	64.316	52.076	1.00	15.93	A	N
ATOM	1885	CA	VAL A 242	9.737	63.025	52.516	1.00	14.13	A	C
ATOM	1886	CB	VAL A 242	9.894	62.990	54.052	1.00	17.19	A	C
ATOM	1887	CG1	VAL A 242	10.671	61.740	54.469	1.00	16.23	A	C
ATOM	1888	CG2	VAL A 242	10.612	64.248	54.523	1.00	18.97	A	C
ATOM	1889	C	VAL A 242	8.849	61.864	52.082	1.00	15.60	A	C
ATOM	1890	O	VAL A 242	9.341	60.808	51.660	1.00	12.78	A	O
ATOM	1891	N	ILE A 243	7.540	62.057	52.209	1.00	14.41	A	N
ATOM	1892	CA	ILE A 243	6.577	61.045	51.803	1.00	16.25	A	C
ATOM	1893	CB	ILE A 243	5.125	61.549	52.007	1.00	18.10	A	C
ATOM	1894	CG2	ILE A 243	4.123	60.554	51.414	1.00	20.99	A	C
ATOM	1895	CG1	ILE A 243	4.858	61.747	53.502	1.00	21.18	A	C
ATOM	1896	CD1	ILE A 243	3.485	62.293	53.817	1.00	20.78	A	C
ATOM	1897	C	ILE A 243	6.833	60.787	50.324	1.00	15.05	A	C
ATOM	1898	O	ILE A 243	6.885	59.639	49.878	1.00	16.76	A	O
ATOM	1899	N	TRP A 244	7.005	61.868	49.569	1.00	13.24	A	N
ATOM	1900	CA	TRP A 244	7.270	61.768	48.142	1.00	15.52	A	C
ATOM	1901	CB	TRP A 244	7.343	63.164	47.523	1.00	13.47	A	C
ATOM	1902	CG	TRP A 244	7.510	63.151	46.036	1.00	18.87	A	C
ATOM	1903	CD2	TRP A 244	8.732	63.342	45.312	1.00	17.48	A	C
ATOM	1904	CE2	TRP A 244	8.426	63.232	43.940	1.00	18.22	A	C
ATOM	1905	CE3	TRP A 244	10.057	63.594	45.693	1.00	17.59	A	C
ATOM	1906	CD1	TRP A 244	6.538	62.938	45.099	1.00	18.15	A	C
ATOM	1907	NE1	TRP A 244	7.083	62.988	43.835	1.00	18.29	A	N
ATOM	1908	CZ2	TRP A 244	9.399	63.366	42.943	1.00	20.22	A	C
ATOM	1909	CZ3	TRP A 244	11.024	63.727	44.702	1.00	18.36	A	C
ATOM	1910	CH2	TRP A 244	10.688	63.611	43.342	1.00	18.43	A	C
ATOM	1911	C	TRP A 244	8.590	61.042	47.891	1.00	14.64	A	C
ATOM	1912	O	TRP A 244	8.670	60.149	47.044	1.00	16.51	A	O
ATOM	1913	N	LEU A 245	9.628	61.436	48.623	1.00	13.56	A	N
ATOM	1914	CA	LEU A 245	10.941	60.814	48.459	1.00	12.19	A	C
ATOM	1915	CB	LEU A 245	11.946	61.416	49.444	1.00	11.28	A	C
ATOM	1916	CG	LEU A 245	13.379	60.875	49.342	1.00	11.24	A	C
ATOM	1917	CD1	LEU A 245	13.988	61.289	48.009	1.00	11.74	A	C
ATOM	1918	CD2	LEU A 245	14.223	61.407	50.490	1.00	10.22	A	C
ATOM	1919	C	LEU A 245	10.862	59.301	48.661	1.00	14.05	A	C
ATOM	1920	O	LEU A 245	11.439	58.537	47.884	1.00	12.33	A	O
ATOM	1921	N	GLU A 246	10.144	58.870	49.698	1.00	14.68	A	N
ATOM	1922	CA	GLU A 246	10.000	57.441	49.980	1.00	16.30	A	C
ATOM	1923	CB	GLU A 246	9.198	57.213	51.267	1.00	16.70	A	C
ATOM	1924	CG	GLU A 246	9.938	57.637	52.521	1.00	23.08	A	C

Figure 6II

ATOM	1925	CD	GLU A 246	9.544	56.818	53.737	1.00	25.63	A	C
ATOM	1926	OE1	GLU A 246	8.335	56.577	53.927	1.00	24.93	A	O
ATOM	1927	OE2	GLU A 246	10.444	56.423	54.508	1.00	27.10	A	O
ATOM	1928	C	GLU A 246	9.324	56.714	48.828	1.00	15.72	A	C
ATOM	1929	O	GLU A 246	9.691	55.589	48.494	1.00	15.40	A	O
ATOM	1930	N	ARG A 247	8.326	57.359	48.235	1.00	16.57	A	N
ATOM	1931	CA	ARG A 247	7.611	56.790	47.105	1.00	18.74	A	C
ATOM	1932	CB	ARG A 247	6.445	57.710	46.711	1.00	23.10	A	C
ATOM	1933	CG	ARG A 247	5.875	57.451	45.325	1.00	32.32	A	C
ATOM	1934	CD	ARG A 247	4.561	58.204	45.114	1.00	40.32	A	C
ATOM	1935	NE	ARG A 247	4.084	58.117	43.733	1.00	47.44	A	N
ATOM	1936	CZ	ARG A 247	4.569	58.835	42.722	1.00	49.78	A	C
ATOM	1937	NH1	ARG A 247	5.548	59.705	42.931	1.00	51.70	A	N
ATOM	1938	NH2	ARG A 247	4.079	58.682	41.497	1.00	52.43	A	N
ATOM	1939	C	ARG A 247	8.594	56.630	45.941	1.00	17.54	A	C
ATOM	1940	O	ARG A 247	8.654	55.578	45.299	1.00	14.31	A	O
ATOM	1941	N	GLN A 248	9.375	57.672	45.677	1.00	15.93	A	N
ATOM	1942	CA	GLN A 248	10.350	57.608	44.598	1.00	16.24	A	C
ATOM	1943	CB	GLN A 248	11.120	58.929	44.485	1.00	17.33	A	C
ATOM	1944	CG	GLN A 248	10.267	60.119	44.047	1.00	16.22	A	C
ATOM	1945	CD	GLN A 248	9.552	59.879	42.725	1.00	22.44	A	C
ATOM	1946	OE1	GLN A 248	10.184	59.627	41.694	1.00	22.85	A	O
ATOM	1947	NE2	GLN A 248	8.225	59.958	42.749	1.00	24.90	A	N
ATOM	1948	C	GLN A 248	11.324	56.453	44.815	1.00	15.90	A	C
ATOM	1949	O	GLN A 248	11.705	55.768	43.866	1.00	16.87	A	O
ATOM	1950	N	ALA A 249	11.720	56.231	46.065	1.00	15.92	A	N
ATOM	1951	CA	ALA A 249	12.644	55.146	46.384	1.00	15.55	A	C
ATOM	1952	CB	ALA A 249	13.015	55.191	47.857	1.00	16.80	A	C
ATOM	1953	C	ALA A 249	12.032	53.789	46.041	1.00	16.47	A	C
ATOM	1954	O	ALA A 249	12.685	52.943	45.426	1.00	16.21	A	O
ATOM	1955	N	LYS A 250	10.779	53.582	46.438	1.00	16.38	A	N
ATOM	1956	CA	LYS A 250	10.102	52.316	46.159	1.00	18.81	A	C
ATOM	1957	CB	LYS A 250	8.750	52.258	46.880	1.00	20.86	A	C
ATOM	1958	CG	LYS A 250	8.843	52.132	48.394	1.00	26.84	A	C
ATOM	1959	CD	LYS A 250	7.488	51.745	48.988	1.00	31.08	A	C
ATOM	1960	CE	LYS A 250	7.554	51.607	50.507	1.00	31.43	A	C
ATOM	1961	NZ	LYS A 250	7.896	52.899	51.156	1.00	29.87	A	N
ATOM	1962	C	LYS A 250	9.884	52.121	44.661	1.00	18.41	A	C
ATOM	1963	O	LYS A 250	10.073	51.024	44.125	1.00	15.17	A	O
ATOM	1964	N	GLU A 251	9.493	53.200	43.992	1.00	15.62	A	N
ATOM	1965	CA	GLU A 251	9.224	53.167	42.562	1.00	18.32	A	C
ATOM	1966	CB	GLU A 251	8.586	54.486	42.119	1.00	20.33	A	C
ATOM	1967	CG	GLU A 251	7.205	54.758	42.692	1.00	23.48	A	C
ATOM	1968	CD	GLU A 251	6.106	54.036	41.936	1.00	25.23	A	C
ATOM	1969	OE1	GLU A 251	6.415	53.361	40.932	1.00	28.49	A	O
ATOM	1970	OE2	GLU A 251	4.932	54.152	42.341	1.00	25.47	A	O
ATOM	1971	C	GLU A 251	10.448	52.921	41.694	1.00	20.06	A	C
ATOM	1972	O	GLU A 251	10.398	52.121	40.763	1.00	17.23	A	O
ATOM	1973	N	TRP A 252	11.547	53.606	41.997	1.00	19.52	A	N
ATOM	1974	CA	TRP A 252	12.748	53.489	41.175	1.00	20.14	A	C
ATOM	1975	CB	TRP A 252	13.276	54.885	40.832	1.00	18.05	A	C
ATOM	1976	CG	TRP A 252	12.305	55.710	40.043	1.00	18.22	A	C
ATOM	1977	CD2	TRP A 252	12.039	55.607	38.640	1.00	20.57	A	C
ATOM	1978	CE2	TRP A 252	11.017	56.533	38.339	1.00	20.85	A	C
ATOM	1979	CE3	TRP A 252	12.564	54.818	37.607	1.00	21.87	A	C
ATOM	1980	CD1	TRP A 252	11.460	56.669	40.523	1.00	17.88	A	C
ATOM	1981	NE1	TRP A 252	10.683	57.168	39.508	1.00	17.77	A	N
ATOM	1982	CZ2	TRP A 252	10.506	56.697	37.041	1.00	22.03	A	C

Figure 6JJ

ATOM	1983	CZ3 TRP A 252	12.055	54.978	36.314	1.00	21.57	A	C
ATOM	1984	CH2 TRP A 252	11.036	55.913	36.045	1.00	22.86	A	C
ATOM	1985	C TRP A 252	13.902	52.641	41.688	1.00	22.39	A	C
ATOM	1986	O TRP A 252	14.680	52.122	40.886	1.00	23.72	A	O
ATOM	1987	N LEU A 253	14.024	52.504	43.003	1.00	22.18	A	N
ATOM	1988	CA LEU A 253	15.106	51.717	43.588	1.00	25.35	A	C
ATOM	1989	CB LEU A 253	15.809	52.524	44.680	1.00	20.44	A	C
ATOM	1990	CG LEU A 253	16.355	53.904	44.285	1.00	21.92	A	C
ATOM	1991	CD1 LEU A 253	16.785	54.649	45.532	1.00	18.63	A	C
ATOM	1992	CD2 LEU A 253	17.530	53.758	43.316	1.00	20.79	A	C
ATOM	1993	C LEU A 253	14.583	50.401	44.168	1.00	29.73	A	C
ATOM	1994	O LEU A 253	15.357	49.570	44.647	1.00	31.04	A	O
ATOM	1995	N LYS A 254	13.267	50.219	44.121	1.00	33.91	A	N
ATOM	1996	CA LYS A 254	12.638	49.007	44.631	1.00	39.79	A	C
ATOM	1997	CB LYS A 254	13.102	47.795	43.812	1.00	43.18	A	C
ATOM	1998	CG LYS A 254	12.330	46.518	44.102	1.00	51.27	A	C
ATOM	1999	CD LYS A 254	12.747	45.377	43.181	1.00	56.67	A	C
ATOM	2000	CE LYS A 254	11.928	44.121	43.464	1.00	59.29	A	C
ATOM	2001	NZ LYS A 254	10.463	44.368	43.307	1.00	62.20	A	N
ATOM	2002	C LYS A 254	12.967	48.805	46.110	1.00	41.24	A	C
ATOM	2003	O LYS A 254	13.111	47.678	46.586	1.00	42.02	A	O
ATOM	2004	N LEU A 255	13.091	49.911	46.834	1.00	42.21	A	N
ATOM	2005	CA LEU A 255	13.396	49.856	48.255	1.00	43.88	A	C
ATOM	2006	CB LEU A 255	14.643	50.687	48.560	1.00	41.85	A	C
ATOM	2007	CG LEU A 255	15.934	50.186	47.910	1.00	40.40	A	C
ATOM	2008	CD1 LEU A 255	17.065	51.143	48.229	1.00	40.11	A	C
ATOM	2009	CD2 LEU A 255	16.258	48.788	48.412	1.00	39.40	A	C
ATOM	2010	C LEU A 255	12.211	50.365	49.070	1.00	46.21	A	C
ATOM	2011	O LEU A 255	12.350	51.427	49.715	1.00	47.30	A	O
ATOM	2012	OXT LEU A 255	11.152	49.696	49.044	1.00	48.09	A	O
ATOM	2013	CB MET B 1	3.272	103.508	55.905	1.00	23.27	B	C
ATOM	2014	CG MET B 1	3.026	102.116	56.484	1.00	25.31	B	C
ATOM	2015	SD MET B 1	1.613	101.253	55.747	1.00	29.32	B	S
ATOM	2016	CE MET B 1	0.239	102.076	56.594	1.00	27.48	B	C
ATOM	2017	C MET B 1	5.739	103.357	56.203	1.00	22.82	B	C
ATOM	2018	O MET B 1	6.391	103.503	55.166	1.00	21.44	B	O
ATOM	2019	N MET B 1	4.661	105.565	55.875	1.00	22.28	B	N
ATOM	2020	CA MET B 1	4.509	104.211	56.478	1.00	22.89	B	C
ATOM	2021	N LYS B 2	6.057	102.479	57.148	1.00	22.63	B	N
ATOM	2022	CA LYS B 2	7.185	101.568	57.010	1.00	21.27	B	C
ATOM	2023	CB LYS B 2	8.060	101.591	58.260	1.00	21.29	B	C
ATOM	2024	CG LYS B 2	9.273	100.675	58.156	1.00	18.62	B	C
ATOM	2025	CD LYS B 2	10.097	100.705	59.419	1.00	18.80	B	C
ATOM	2026	CE LYS B 2	11.414	99.983	59.213	1.00	19.94	B	C
ATOM	2027	NZ LYS B 2	12.203	99.908	60.474	1.00	21.20	B	N
ATOM	2028	C LYS B 2	6.610	100.169	56.822	1.00	19.67	B	C
ATOM	2029	O LYS B 2	5.903	99.661	57.692	1.00	20.03	B	O
ATOM	2030	N ILE B 3	6.915	99.545	55.689	1.00	18.60	B	N
ATOM	2031	CA ILE B 3	6.395	98.213	55.410	1.00	16.13	B	C
ATOM	2032	CB ILE B 3	5.409	98.250	54.232	1.00	18.20	B	C
ATOM	2033	CG2 ILE B 3	4.281	99.237	54.516	1.00	15.72	B	C
ATOM	2034	CG1 ILE B 3	6.156	98.669	52.964	1.00	17.99	B	C
ATOM	2035	CD1 ILE B 3	5.909	97.772	51.772	1.00	20.13	B	C
ATOM	2036	C ILE B 3	7.476	97.190	55.062	1.00	17.01	B	C
ATOM	2037	O ILE B 3	8.637	97.535	54.820	1.00	13.35	B	O
ATOM	2038	N GLY B 4	7.072	95.924	55.046	1.00	15.79	B	N
ATOM	2039	CA GLY B 4	7.982	94.859	54.678	1.00	13.12	B	C
ATOM	2040	C GLY B 4	7.474	94.217	53.401	1.00	12.84	B	C

Figure 6KK

ATOM	2041	O	GLY	B	4	6.271	94.248	53.123	1.00	12.27	B	O
ATOM	2042	N	VAL	B	5	8.387	93.670	52.602	1.00	11.41	B	N
ATOM	2043	CA	VAL	B	5	8.024	92.982	51.362	1.00	12.46	B	C
ATOM	2044	CB	VAL	B	5	8.471	93.755	50.092	1.00	11.43	B	C
ATOM	2045	CG1	VAL	B	5	8.281	92.886	48.860	1.00	10.57	B	C
ATOM	2046	CG2	VAL	B	5	7.646	95.026	49.938	1.00	13.41	B	C
ATOM	2047	C	VAL	B	5	8.745	91.641	51.404	1.00	11.84	B	C
ATOM	2048	O	VAL	B	5	9.964	91.591	51.565	1.00	13.84	B	O
ATOM	2049	N	PHE	B	6	7.989	90.559	51.277	1.00	11.52	B	N
ATOM	2050	CA	PHE	B	6	8.571	89.222	51.330	1.00	12.00	B	C
ATOM	2051	CB	PHE	B	6	7.930	88.429	52.471	1.00	14.01	B	C
ATOM	2052	CG	PHE	B	6	8.313	86.975	52.485	1.00	15.68	B	C
ATOM	2053	CD1	PHE	B	6	9.650	86.598	52.576	1.00	15.79	B	C
ATOM	2054	CD2	PHE	B	6	7.340	85.983	52.403	1.00	17.28	B	C
ATOM	2055	CE1	PHE	B	6	10.017	85.251	52.584	1.00	15.22	B	C
ATOM	2056	CE2	PHE	B	6	7.699	84.628	52.411	1.00	18.59	B	C
ATOM	2057	CZ	PHE	B	6	9.044	84.268	52.502	1.00	15.23	B	C
ATOM	2058	C	PHE	B	6	8.440	88.410	50.046	1.00	12.99	B	C
ATOM	2059	O	PHE	B	6	7.396	88.412	49.400	1.00	13.52	B	O
ATOM	2060	N	ASP	B	7	9.512	87.707	49.695	1.00	13.22	B	N
ATOM	2061	CA	ASP	B	7	9.533	86.839	48.523	1.00	12.28	B	C
ATOM	2062	CB	ASP	B	7	9.914	87.600	47.254	1.00	12.10	B	C
ATOM	2063	CG	ASP	B	7	9.838	86.727	46.018	1.00	11.16	B	C
ATOM	2064	OD1	ASP	B	7	8.773	86.111	45.800	1.00	11.05	B	O
ATOM	2065	OD2	ASP	B	7	10.835	86.652	45.265	1.00	15.46	B	O
ATOM	2066	C	ASP	B	7	10.544	85.730	48.749	1.00	12.97	B	C
ATOM	2067	O	ASP	B	7	11.402	85.831	49.626	1.00	14.91	B	O
ATOM	2068	N	SER	B	8	10.444	84.670	47.953	1.00	13.64	B	N
ATOM	2069	CA	SER	B	8	11.367	83.551	48.076	1.00	13.32	B	C
ATOM	2070	CB	SER	B	8	10.870	82.357	47.246	1.00	11.76	B	C
ATOM	2071	OG	SER	B	8	10.643	82.716	45.892	1.00	12.59	B	O
ATOM	2072	C	SER	B	8	12.760	83.979	47.618	1.00	12.86	B	C
ATOM	2073	O	SER	B	8	13.760	83.328	47.931	1.00	15.56	B	O
ATOM	2074	N	GLY	B	9	12.826	85.088	46.888	1.00	14.15	B	N
ATOM	2075	CA	GLY	B	9	14.113	85.565	46.418	1.00	11.94	B	C
ATOM	2076	C	GLY	B	9	14.060	86.923	45.751	1.00	13.28	B	C
ATOM	2077	O	GLY	B	9	13.420	87.855	46.255	1.00	11.42	B	O
ATOM	2078	N	VAL	B	10	14.731	87.031	44.608	1.00	11.70	B	N
ATOM	2079	CA	VAL	B	10	14.793	88.283	43.848	1.00	13.19	B	C
ATOM	2080	CB	VAL	B	10	16.035	88.301	42.931	1.00	11.94	B	C
ATOM	2081	CG1	VAL	B	10	15.956	87.149	41.948	1.00	17.01	B	C
ATOM	2082	CG2	VAL	B	10	16.148	89.633	42.200	1.00	12.63	B	C
ATOM	2083	C	VAL	B	10	13.546	88.495	42.995	1.00	12.34	B	C
ATOM	2084	O	VAL	B	10	13.267	89.604	42.550	1.00	14.01	B	O
ATOM	2085	N	GLY	B	11	12.794	87.426	42.768	1.00	12.08	B	N
ATOM	2086	CA	GLY	B	11	11.591	87.540	41.957	1.00	14.90	B	C
ATOM	2087	C	GLY	B	11	10.634	88.640	42.373	1.00	12.77	B	C
ATOM	2088	O	GLY	B	11	10.004	89.278	41.524	1.00	13.23	B	O
ATOM	2089	N	GLY	B	12	10.524	88.861	43.679	1.00	13.56	B	N
ATOM	2090	CA	GLY	B	12	9.639	89.887	44.198	1.00	15.76	B	C
ATOM	2091	C	GLY	B	12	9.917	91.279	43.659	1.00	15.26	B	C
ATOM	2092	O	GLY	B	12	9.141	92.213	43.899	1.00	15.12	B	O
ATOM	2093	N	PHE	B	13	11.024	91.426	42.937	1.00	12.59	B	N
ATOM	2094	CA	PHE	B	13	11.376	92.713	42.360	1.00	14.03	B	C
ATOM	2095	CB	PHE	B	13	12.702	92.620	41.589	1.00	14.04	B	C
ATOM	2096	CG	PHE	B	13	13.929	92.823	42.446	1.00	14.87	B	C
ATOM	2097	CD1	PHE	B	13	15.133	93.231	41.868	1.00	16.32	B	C
ATOM	2098	CD2	PHE	B	13	13.883	92.629	43.823	1.00	14.64	B	C

Figure 6LL

ATOM	2099	CE1 PHE B 13	16.272	93.448	42.651	1.00	13.70	B	C
ATOM	2100	CE2 PHE B 13	15.013	92.842	44.614	1.00	13.54	B	C
ATOM	2101	CZ PHE B 13	16.210	93.254	44.025	1.00	15.35	B	C
ATOM	2102	C PHE B 13	10.260	93.184	41.425	1.00	14.72	B	C
ATOM	2103	O PHE B 13	10.013	94.380	41.301	1.00	12.42	B	O
ATOM	2104	N SER B 14	9.580	92.243	40.775	1.00	14.71	B	N
ATOM	2105	CA SER B 14	8.494	92.600	39.860	1.00	14.65	B	C
ATOM	2106	CB SER B 14	7.918	91.349	39.187	1.00	14.09	B	C
ATOM	2107	OG SER B 14	7.405	90.436	40.135	1.00	13.06	B	O
ATOM	2108	C SER B 14	7.380	93.355	40.587	1.00	14.07	B	C
ATOM	2109	O SER B 14	6.688	94.187	39.994	1.00	13.89	B	O
ATOM	2110	N VAL B 15	7.212	93.064	41.872	1.00	14.55	B	N
ATOM	2111	CA VAL B 15	6.196	93.737	42.675	1.00	14.09	B	C
ATOM	2112	CB VAL B 15	5.675	92.827	43.814	1.00	12.74	B	C
ATOM	2113	CG1 VAL B 15	4.705	93.600	44.698	1.00	13.09	B	C
ATOM	2114	CG2 VAL B 15	4.971	91.604	43.224	1.00	11.77	B	C
ATOM	2115	C VAL B 15	6.789	95.003	43.283	1.00	14.70	B	C
ATOM	2116	O VAL B 15	6.145	96.052	43.307	1.00	13.74	B	O
ATOM	2117	N LEU B 16	8.022	94.903	43.769	1.00	13.69	B	N
ATOM	2118	CA LEU B 16	8.679	96.048	44.384	1.00	14.26	B	C
ATOM	2119	CB LEU B 16	10.082	95.662	44.863	1.00	13.66	B	C
ATOM	2120	CG LEU B 16	10.940	96.793	45.448	1.00	14.21	B	C
ATOM	2121	CD1 LEU B 16	10.201	97.451	46.605	1.00	12.59	B	C
ATOM	2122	CD2 LEU B 16	12.280	96.242	45.905	1.00	12.19	B	C
ATOM	2123	C LEU B 16	8.757	97.212	43.401	1.00	16.29	B	C
ATOM	2124	O LEU B 16	8.614	98.373	43.787	1.00	16.57	B	O
ATOM	2125	N LYS B 17	8.984	96.896	42.129	1.00	17.51	B	N
ATOM	2126	CA LYS B 17	9.069	97.927	41.099	1.00	19.45	B	C
ATOM	2127	CB LYS B 17	9.349	97.298	39.733	1.00	19.95	B	C
ATOM	2128	CG LYS B 17	9.302	98.291	38.578	1.00	24.40	B	C
ATOM	2129	CD LYS B 17	9.568	97.608	37.245	1.00	29.79	B	C
ATOM	2130	CE LYS B 17	9.472	98.586	36.081	1.00	33.15	B	C
ATOM	2131	NZ LYS B 17	9.808	97.925	34.784	1.00	35.04	B	N
ATOM	2132	C LYS B 17	7.769	98.722	41.038	1.00	19.40	B	C
ATOM	2133	O LYS B 17	7.788	99.950	40.985	1.00	18.81	B	O
ATOM	2134	N SER B 18	6.642	98.018	41.042	1.00	18.29	B	N
ATOM	2135	CA SER B 18	5.344	98.675	40.997	1.00	18.21	B	C
ATOM	2136	CB SER B 18	4.221	97.636	40.941	1.00	17.21	B	C
ATOM	2137	OG SER B 18	4.357	96.808	39.798	1.00	17.80	B	O
ATOM	2138	C SER B 18	5.162	99.561	42.222	1.00	19.88	B	C
ATOM	2139	O SER B 18	4.720	100.703	42.112	1.00	17.77	B	O
ATOM	2140	N LEU B 19	5.510	99.030	43.391	1.00	19.41	B	N
ATOM	2141	CA LEU B 19	5.379	99.785	44.629	1.00	19.33	B	C
ATOM	2142	CB LEU B 19	5.839	98.936	45.817	1.00	18.90	B	C
ATOM	2143	CG LEU B 19	5.085	97.622	46.027	1.00	20.11	B	C
ATOM	2144	CD1 LEU B 19	5.701	96.850	47.188	1.00	18.40	B	C
ATOM	2145	CD2 LEU B 19	3.612	97.919	46.289	1.00	17.29	B	C
ATOM	2146	C LEU B 19	6.205	101.063	44.564	1.00	18.96	B	C
ATOM	2147	O LEU B 19	5.722	102.145	44.897	1.00	19.77	B	O
ATOM	2148	N LEU B 20	7.455	100.930	44.136	1.00	19.62	B	N
ATOM	2149	CA LEU B 20	8.355	102.071	44.024	1.00	20.54	B	C
ATOM	2150	CB LEU B 20	9.736	101.605	43.548	1.00	19.03	B	C
ATOM	2151	CG LEU B 20	10.562	100.763	44.529	1.00	21.61	B	C
ATOM	2152	CD1 LEU B 20	11.789	100.217	43.824	1.00	17.66	B	C
ATOM	2153	CD2 LEU B 20	10.968	101.613	45.731	1.00	17.70	B	C
ATOM	2154	C LEU B 20	7.821	103.148	43.077	1.00	21.80	B	C
ATOM	2155	O LEU B 20	7.864	104.334	43.397	1.00	24.32	B	O
ATOM	2156	N LYS B 21	7.321	102.736	41.916	1.00	22.92	B	N

Figure 6MM

ATOM	2157	CA	LYS	B	21	6.789	103.680	40.932	1.00	25.60	B	C
ATOM	2158	CB	LYS	B	21	6.334	102.934	39.671	1.00	29.64	B	C
ATOM	2159	CG	LYS	B	21	7.412	102.050	39.049	1.00	39.78	B	C
ATOM	2160	CD	LYS	B	21	6.819	100.964	38.139	1.00	45.78	B	C
ATOM	2161	CE	LYS	B	21	6.314	101.521	36.813	1.00	49.52	B	C
ATOM	2162	NZ	LYS	B	21	7.428	101.970	35.926	1.00	52.40	B	N
ATOM	2163	C	LYS	B	21	5.610	104.455	41.513	1.00	24.12	B	C
ATOM	2164	O	LYS	B	21	5.461	105.652	41.270	1.00	21.99	B	O
ATOM	2165	N	ALA	B	22	4.775	103.762	42.281	1.00	22.32	B	N
ATOM	2166	CA	ALA	B	22	3.602	104.378	42.889	1.00	23.02	B	C
ATOM	2167	CB	ALA	B	22	2.619	103.299	43.321	1.00	21.51	B	C
ATOM	2168	C	ALA	B	22	3.950	105.279	44.074	1.00	25.48	B	C
ATOM	2169	O	ALA	B	22	3.082	105.975	44.602	1.00	26.34	B	O
ATOM	2170	N	ARG	B	23	5.214	105.264	44.489	1.00	26.06	B	N
ATOM	2171	CA	ARG	B	23	5.674	106.090	45.606	1.00	28.97	B	C
ATOM	2172	CB	ARG	B	23	5.794	107.556	45.170	1.00	33.33	B	C
ATOM	2173	CG	ARG	B	23	6.504	107.770	43.850	1.00	41.37	B	C
ATOM	2174	CD	ARG	B	23	6.349	109.205	43.378	1.00	47.44	B	C
ATOM	2175	NE	ARG	B	23	6.782	109.366	41.992	1.00	56.48	B	N
ATOM	2176	CZ	ARG	B	23	6.602	110.472	41.275	1.00	59.85	B	C
ATOM	2177	NH1	ARG	B	23	5.998	111.520	41.819	1.00	63.01	B	N
ATOM	2178	NH2	ARG	B	23	7.019	110.529	40.015	1.00	61.13	B	N
ATOM	2179	C	ARG	B	23	4.697	106.012	46.774	1.00	27.89	B	C
ATOM	2180	O	ARG	B	23	4.246	107.042	47.276	1.00	27.91	B	O
ATOM	2181	N	LEU	B	24	4.373	104.797	47.205	1.00	25.94	B	N
ATOM	2182	CA	LEU	B	24	3.430	104.611	48.303	1.00	24.48	B	C
ATOM	2183	CB	LEU	B	24	2.653	103.301	48.118	1.00	22.57	B	C
ATOM	2184	CG	LEU	B	24	1.822	103.103	46.847	1.00	24.84	B	C
ATOM	2185	CD1	LEU	B	24	1.067	101.779	46.942	1.00	23.08	B	C
ATOM	2186	CD2	LEU	B	24	0.842	104.266	46.671	1.00	23.49	B	C
ATOM	2187	C	LEU	B	24	4.048	104.617	49.699	1.00	24.22	B	C
ATOM	2188	O	LEU	B	24	3.445	105.126	50.641	1.00	25.35	B	O
ATOM	2189	N	PHE	B	25	5.250	104.068	49.842	1.00	25.14	B	N
ATOM	2190	CA	PHE	B	25	5.865	103.997	51.161	1.00	25.20	B	C
ATOM	2191	CB	PHE	B	25	6.078	102.531	51.530	1.00	24.64	B	C
ATOM	2192	CG	PHE	B	25	4.886	101.665	51.251	1.00	23.70	B	C
ATOM	2193	CD1	PHE	B	25	4.849	100.851	50.123	1.00	23.04	B	C
ATOM	2194	CD2	PHE	B	25	3.788	101.685	52.098	1.00	22.47	B	C
ATOM	2195	CE1	PHE	B	25	3.729	100.070	49.845	1.00	20.01	B	C
ATOM	2196	CE2	PHE	B	25	2.666	100.910	51.828	1.00	22.66	B	C
ATOM	2197	CZ	PHE	B	25	2.637	100.100	50.697	1.00	21.24	B	C
ATOM	2198	C	PHE	B	25	7.164	104.758	51.361	1.00	25.96	B	C
ATOM	2199	O	PHE	B	25	8.020	104.796	50.482	1.00	28.54	B	O
ATOM	2200	N	ASP	B	26	7.308	105.355	52.540	1.00	26.35	B	N
ATOM	2201	CA	ASP	B	26	8.512	106.108	52.872	1.00	28.67	B	C
ATOM	2202	CB	ASP	B	26	8.300	106.958	54.130	1.00	31.57	B	C
ATOM	2203	CG	ASP	B	26	7.335	108.101	53.907	1.00	33.21	B	C
ATOM	2204	OD1	ASP	B	26	7.429	108.753	52.844	1.00	33.40	B	O
ATOM	2205	OD2	ASP	B	26	6.495	108.352	54.800	1.00	37.72	B	O
ATOM	2206	C	ASP	B	26	9.697	105.186	53.109	1.00	25.51	B	C
ATOM	2207	O	ASP	B	26	10.840	105.567	52.877	1.00	22.85	B	O
ATOM	2208	N	GLU	B	27	9.421	103.974	53.581	1.00	24.08	B	N
ATOM	2209	CA	GLU	B	27	10.483	103.013	53.859	1.00	21.60	B	C
ATOM	2210	CB	GLU	B	27	10.964	103.179	55.305	1.00	22.98	B	C
ATOM	2211	CG	GLU	B	27	11.869	102.071	55.800	1.00	25.73	B	C
ATOM	2212	CD	GLU	B	27	12.636	102.459	57.051	1.00	30.40	B	C
ATOM	2213	OE1	GLU	B	27	12.088	103.219	57.883	1.00	28.18	B	O
ATOM	2214	OE2	GLU	B	27	13.785	101.993	57.207	1.00	28.75	B	O

Figure 6NN

ATOM	2215	C	GLU	B	27	10.036	101.576	53.601	1.00	19.70	B	C
ATOM	2216	O	GLU	B	27	8.919	101.184	53.948	1.00	17.68	B	O
ATOM	2217	N	ILE	B	28	10.926	100.795	52.995	1.00	16.91	B	N
ATOM	2218	CA	ILE	B	28	10.630	99.407	52.651	1.00	14.07	B	C
ATOM	2219	CB	ILE	B	28	10.394	99.276	51.121	1.00	15.11	B	C
ATOM	2220	CG2	ILE	B	28	10.279	97.816	50.711	1.00	15.06	B	C
ATOM	2221	CG1	ILE	B	28	9.124	100.034	50.732	1.00	15.08	B	C
ATOM	2222	CD1	ILE	B	28	8.920	100.162	49.218	1.00	17.55	B	C
ATOM	2223	C	ILE	B	28	11.740	98.446	53.069	1.00	14.73	B	C
ATOM	2224	O	ILE	B	28	12.925	98.694	52.825	1.00	14.43	B	O
ATOM	2225	N	ILE	B	29	11.348	97.357	53.720	1.00	13.73	B	N
ATOM	2226	CA	ILE	B	29	12.299	96.338	54.143	1.00	15.11	B	C
ATOM	2227	CB	ILE	B	29	12.113	95.957	55.636	1.00	14.64	B	C
ATOM	2228	CG2	ILE	B	29	13.231	95.012	56.077	1.00	13.07	B	C
ATOM	2229	CG1	ILE	B	29	12.129	97.214	56.521	1.00	16.50	B	C
ATOM	2230	CD1	ILE	B	29	13.462	97.949	56.554	1.00	12.57	B	C
ATOM	2231	C	ILE	B	29	11.989	95.121	53.262	1.00	14.26	B	C
ATOM	2232	O	ILE	B	29	10.960	94.460	53.438	1.00	16.06	B	O
ATOM	2233	N	TYR	B	30	12.857	94.855	52.293	1.00	12.97	B	N
ATOM	2234	CA	TYR	B	30	12.667	93.728	51.382	1.00	12.66	B	C
ATOM	2235	CB	TYR	B	30	13.095	94.117	49.957	1.00	11.95	B	C
ATOM	2236	CG	TYR	B	30	12.831	93.042	48.913	1.00	11.71	B	C
ATOM	2237	CD1	TYR	B	30	11.703	93.097	48.096	1.00	9.69	B	C
ATOM	2238	CE1	TYR	B	30	11.441	92.100	47.149	1.00	12.54	B	C
ATOM	2239	CD2	TYR	B	30	13.700	91.958	48.762	1.00	12.15	B	C
ATOM	2240	CE2	TYR	B	30	13.449	90.953	47.817	1.00	14.27	B	C
ATOM	2241	CZ	TYR	B	30	12.319	91.033	47.014	1.00	14.57	B	C
ATOM	2242	OH	TYR	B	30	12.078	90.061	46.070	1.00	11.66	B	O
ATOM	2243	C	TYR	B	30	13.473	92.516	51.842	1.00	15.13	B	C
ATOM	2244	O	TYR	B	30	14.673	92.624	52.115	1.00	17.82	B	O
ATOM	2245	N	TYR	B	31	12.812	91.364	51.932	1.00	13.53	B	N
ATOM	2246	CA	TYR	B	31	13.488	90.144	52.350	1.00	13.30	B	C
ATOM	2247	CB	TYR	B	31	13.063	89.742	53.773	1.00	14.35	B	C
ATOM	2248	CG	TYR	B	31	13.588	88.381	54.209	1.00	13.93	B	C
ATOM	2249	CD1	TYR	B	31	14.955	88.143	54.318	1.00	13.81	B	C
ATOM	2250	CE1	TYR	B	31	15.446	86.887	54.682	1.00	16.52	B	C
ATOM	2251	CD2	TYR	B	31	12.712	87.326	54.481	1.00	15.49	B	C
ATOM	2252	CE2	TYR	B	31	13.191	86.064	54.850	1.00	17.62	B	C
ATOM	2253	CZ	TYR	B	31	14.563	85.852	54.946	1.00	14.49	B	C
ATOM	2254	OH	TYR	B	31	15.047	84.611	55.304	1.00	14.75	B	O
ATOM	2255	C	TYR	B	31	13.188	89.005	51.382	1.00	11.69	B	C
ATOM	2256	O	TYR	B	31	12.032	88.657	51.153	1.00	12.79	B	O
ATOM	2257	N	GLY	B	32	14.246	88.440	50.812	1.00	12.78	B	N
ATOM	2258	CA	GLY	B	32	14.093	87.327	49.896	1.00	11.28	B	C
ATOM	2259	C	GLY	B	32	14.761	86.117	50.522	1.00	13.78	B	C
ATOM	2260	O	GLY	B	32	15.950	86.162	50.839	1.00	11.17	B	O
ATOM	2261	N	ASP	B	33	14.002	85.040	50.710	1.00	14.25	B	N
ATOM	2262	CA	ASP	B	33	14.540	83.819	51.306	1.00	15.29	B	C
ATOM	2263	CB	ASP	B	33	13.391	82.987	51.885	1.00	13.57	B	C
ATOM	2264	CG	ASP	B	33	13.871	81.730	52.589	1.00	14.42	B	C
ATOM	2265	OD1	ASP	B	33	15.034	81.702	53.046	1.00	14.38	B	O
ATOM	2266	OD2	ASP	B	33	13.077	80.773	52.695	1.00	14.44	B	O
ATOM	2267	C	ASP	B	33	15.288	83.049	50.226	1.00	14.09	B	C
ATOM	2268	O	ASP	B	33	15.027	81.867	49.980	1.00	12.43	B	O
ATOM	2269	N	SER	B	34	16.238	83.739	49.597	1.00	14.94	B	N
ATOM	2270	CA	SER	B	34	17.016	83.186	48.490	1.00	14.92	B	C
ATOM	2271	CB	SER	B	34	17.941	84.268	47.908	1.00	13.20	B	C
ATOM	2272	OG	SER	B	34	18.886	84.714	48.863	1.00	14.39	B	O

Figure 600

ATOM	2273	C	SER B 34	17.821	81.924	48.772	1.00	14.53	B	C
ATOM	2274	O	SER B 34	18.348	81.308	47.849	1.00	12.91	B	O
ATOM	2275	N	ALA B 35	17.930	81.535	50.034	1.00	13.97	B	N
ATOM	2276	CA	ALA B 35	18.664	80.317	50.345	1.00	15.25	B	C
ATOM	2277	CB	ALA B 35	19.050	80.297	51.820	1.00	15.69	B	C
ATOM	2278	C	ALA B 35	17.801	79.101	50.023	1.00	15.43	B	C
ATOM	2279	O	ALA B 35	18.321	78.010	49.776	1.00	13.55	B	O
ATOM	2280	N	ARG B 36	16.484	79.296	50.000	1.00	13.78	B	N
ATOM	2281	CA	ARG B 36	15.567	78.185	49.777	1.00	14.22	B	C
ATOM	2282	CB	ARG B 36	14.697	78.023	51.027	1.00	13.17	B	C
ATOM	2283	CG	ARG B 36	15.541	77.986	52.303	1.00	13.84	B	C
ATOM	2284	CD	ARG B 36	14.775	77.513	53.520	1.00	16.20	B	C
ATOM	2285	NE	ARG B 36	13.830	78.511	54.012	1.00	13.15	B	N
ATOM	2286	CZ	ARG B 36	13.310	78.500	55.235	1.00	14.54	B	C
ATOM	2287	NH1	ARG B 36	13.642	77.542	56.090	1.00	13.26	B	N
ATOM	2288	NH2	ARG B 36	12.468	79.454	55.613	1.00	15.47	B	N
ATOM	2289	C	ARG B 36	14.703	78.235	48.517	1.00	14.96	B	C
ATOM	2290	O	ARG B 36	13.971	77.288	48.220	1.00	16.93	B	O
ATOM	2291	N	VAL B 37	14.791	79.328	47.770	1.00	14.56	B	N
ATOM	2292	CA	VAL B 37	14.036	79.461	46.530	1.00	15.83	B	C
ATOM	2293	CB	VAL B 37	14.327	80.840	45.875	1.00	16.33	B	C
ATOM	2294	CG1	VAL B 37	15.775	80.909	45.422	1.00	16.98	B	C
ATOM	2295	CG2	VAL B 37	13.379	81.093	44.719	1.00	16.47	B	C
ATOM	2296	C	VAL B 37	14.452	78.312	45.587	1.00	14.68	B	C
ATOM	2297	O	VAL B 37	15.615	77.895	45.575	1.00	15.45	B	O
ATOM	2298	N	PRO B 38	13.511	77.780	44.790	1.00	14.64	B	N
ATOM	2299	CD	PRO B 38	13.845	76.783	43.755	1.00	11.60	B	C
ATOM	2300	CA	PRO B 38	12.102	78.160	44.696	1.00	14.93	B	C
ATOM	2301	CB	PRO B 38	11.743	77.754	43.271	1.00	13.51	B	C
ATOM	2302	CG	PRO B 38	12.485	76.470	43.123	1.00	15.17	B	C
ATOM	2303	C	PRO B 38	11.191	77.489	45.710	1.00	15.27	B	C
ATOM	2304	O	PRO B 38	11.510	76.437	46.274	1.00	13.54	B	O
ATOM	2305	N	TYR B 39	10.043	78.118	45.915	1.00	13.69	B	N
ATOM	2306	CA	TYR B 39	9.013	77.623	46.811	1.00	13.90	B	C
ATOM	2307	CB	TYR B 39	8.268	78.798	47.444	1.00	13.72	B	C
ATOM	2308	CG	TYR B 39	8.922	79.471	48.624	1.00	10.70	B	C
ATOM	2309	CD1	TYR B 39	10.268	79.261	48.937	1.00	10.84	B	C
ATOM	2310	CE1	TYR B 39	10.860	79.906	50.023	1.00	12.25	B	C
ATOM	2311	CD2	TYR B 39	8.186	80.344	49.426	1.00	12.79	B	C
ATOM	2312	CE2	TYR B 39	8.766	80.996	50.514	1.00	12.39	B	C
ATOM	2313	CZ	TYR B 39	10.104	80.772	50.809	1.00	13.35	B	C
ATOM	2314	OH	TYR B 39	10.674	81.405	51.893	1.00	12.01	B	O
ATOM	2315	C	TYR B 39	7.997	76.821	45.987	1.00	14.02	B	C
ATOM	2316	O	TYR B 39	7.451	75.827	46.455	1.00	15.23	B	O
ATOM	2317	N	GLY B 40	7.752	77.290	44.765	1.00	16.75	B	N
ATOM	2318	CA	GLY B 40	6.768	76.686	43.874	1.00	16.84	B	C
ATOM	2319	C	GLY B 40	6.860	75.212	43.525	1.00	16.65	B	C
ATOM	2320	O	GLY B 40	5.886	74.620	43.049	1.00	14.08	B	O
ATOM	2321	N	THR B 41	8.017	74.611	43.766	1.00	15.91	B	N
ATOM	2322	CA	THR B 41	8.225	73.204	43.440	1.00	16.59	B	C
ATOM	2323	CB	THR B 41	9.636	72.990	42.900	1.00	16.07	B	C
ATOM	2324	OG1	THR B 41	10.580	73.477	43.861	1.00	15.88	B	O
ATOM	2325	CG2	THR B 41	9.817	73.737	41.592	1.00	19.86	B	C
ATOM	2326	C	THR B 41	8.072	72.320	44.659	1.00	16.87	B	C
ATOM	2327	O	THR B 41	8.245	71.099	44.584	1.00	18.68	B	O
ATOM	2328	N	LYS B 42	7.742	72.939	45.783	1.00	16.57	B	N
ATOM	2329	CA	LYS B 42	7.647	72.178	47.002	1.00	16.66	B	C
ATOM	2330	CB	LYS B 42	8.592	72.768	48.035	1.00	15.39	B	C

Figure 6PP

ATOM	2331	CG	LYS	B	42	10.049	72.613	47.578	1.00	16.40	B	C
ATOM	2332	CD	LYS	B	42	10.942	73.766	47.995	1.00	12.99	B	C
ATOM	2333	CE	LYS	B	42	12.343	73.611	47.372	1.00	12.98	B	C
ATOM	2334	NZ	LYS	B	42	13.246	74.754	47.688	1.00	12.01	B	N
ATOM	2335	C	LYS	B	42	6.273	71.981	47.593	1.00	19.30	B	C
ATOM	2336	O	LYS	B	42	5.311	72.659	47.234	1.00	19.46	B	O
ATOM	2337	N	ASP	B	43	6.206	71.042	48.526	1.00	19.11	B	N
ATOM	2338	CA	ASP	B	43	4.903	70.766	49.089	1.00	20.39	B	C
ATOM	2339	CB	ASP	B	43	4.970	69.389	49.727	1.00	26.23	B	C
ATOM	2340	CG	ASP	B	43	3.668	68.908	50.218	1.00	34.18	B	C
ATOM	2341	OD1	ASP	B	43	3.032	69.628	51.023	1.00	35.73	B	O
ATOM	2342	OD2	ASP	B	43	3.286	67.802	49.834	1.00	34.67	B	O
ATOM	2343	C	ASP	B	43	4.324	71.860	50.037	1.00	18.74	B	C
ATOM	2344	O	ASP	B	43	5.067	72.590	50.662	1.00	17.52	B	O
ATOM	2345	N	PRO	B	44	2.970	71.973	50.139	1.00	16.86	B	N
ATOM	2346	CD	PRO	B	44	1.945	71.249	49.366	1.00	16.70	B	C
ATOM	2347	CA	PRO	B	44	2.316	72.976	51.001	1.00	15.67	B	C
ATOM	2348	CB	PRO	B	44	0.838	72.608	50.910	1.00	16.57	B	C
ATOM	2349	CG	PRO	B	44	0.714	72.164	49.520	1.00	15.09	B	C
ATOM	2350	C	PRO	B	44	2.785	73.063	52.460	1.00	14.32	B	C
ATOM	2351	O	PRO	B	44	2.975	74.159	52.984	1.00	14.18	B	O
ATOM	2352	N	THR	B	45	2.968	71.928	53.125	1.00	12.56	B	N
ATOM	2353	CA	THR	B	45	3.404	71.976	54.513	1.00	15.07	B	C
ATOM	2354	CB	THR	B	45	3.416	70.544	55.159	1.00	14.56	B	C
ATOM	2355	OG1	THR	B	45	3.473	70.671	56.582	1.00	20.74	B	O
ATOM	2356	CG2	THR	B	45	4.617	69.725	54.690	1.00	16.79	B	C
ATOM	2357	C	THR	B	45	4.773	72.673	54.661	1.00	13.75	B	C
ATOM	2358	O	THR	B	45	5.015	73.370	55.644	1.00	15.18	B	O
ATOM	2359	N	THR	B	46	5.652	72.512	53.675	1.00	14.31	B	N
ATOM	2360	CA	THR	B	46	6.978	73.138	53.708	1.00	13.76	B	C
ATOM	2361	CB	THR	B	46	7.908	72.534	52.625	1.00	15.70	B	C
ATOM	2362	OG1	THR	B	46	8.111	71.139	52.888	1.00	16.08	B	O
ATOM	2363	CG2	THR	B	46	9.257	73.237	52.611	1.00	14.55	B	C
ATOM	2364	C	THR	B	46	6.874	74.645	53.463	1.00	14.40	B	C
ATOM	2365	O	THR	B	46	7.538	75.450	54.120	1.00	12.91	B	O
ATOM	2366	N	ILE	B	47	6.029	75.016	52.509	1.00	12.98	B	N
ATOM	2367	CA	ILE	B	47	5.843	76.414	52.159	1.00	14.06	B	C
ATOM	2368	CB	ILE	B	47	4.987	76.537	50.881	1.00	12.60	B	C
ATOM	2369	CG2	ILE	B	47	4.790	78.005	50.517	1.00	13.35	B	C
ATOM	2370	CG1	ILE	B	47	5.684	75.804	49.727	1.00	14.48	B	C
ATOM	2371	CD1	ILE	B	47	4.831	75.660	48.469	1.00	13.95	B	C
ATOM	2372	C	ILE	B	47	5.193	77.190	53.305	1.00	13.29	B	C
ATOM	2373	O	ILE	B	47	5.588	78.314	53.610	1.00	12.68	B	O
ATOM	2374	N	LYS	B	48	4.199	76.594	53.948	1.00	13.12	B	N
ATOM	2375	CA	LYS	B	48	3.541	77.279	55.047	1.00	14.82	B	C
ATOM	2376	CB	LYS	B	48	2.387	76.440	55.606	1.00	15.61	B	C
ATOM	2377	CG	LYS	B	48	1.239	76.283	54.621	1.00	16.82	B	C
ATOM	2378	CD	LYS	B	48	0.021	75.649	55.261	1.00	17.71	B	C
ATOM	2379	CE	LYS	B	48	-1.123	75.558	54.259	1.00	21.58	B	C
ATOM	2380	NZ	LYS	B	48	-2.370	75.047	54.891	1.00	23.95	B	N
ATOM	2381	C	LYS	B	48	4.537	77.600	56.145	1.00	15.64	B	C
ATOM	2382	O	LYS	B	48	4.546	78.719	56.661	1.00	14.41	B	O
ATOM	2383	N	GLN	B	49	5.383	76.630	56.493	1.00	13.94	B	N
ATOM	2384	CA	GLN	B	49	6.388	76.836	57.533	1.00	14.63	B	C
ATOM	2385	CB	GLN	B	49	7.127	75.520	57.822	1.00	15.57	B	C
ATOM	2386	CG	GLN	B	49	8.185	75.577	58.930	1.00	19.33	B	C
ATOM	2387	CD	GLN	B	49	7.656	76.099	60.258	1.00	18.82	B	C
ATOM	2388	OE1	GLN	B	49	6.509	75.840	60.638	1.00	17.48	B	O

Figure 6QQ

ATOM	2389	NE2 GLN B 49	8.498	76.826	60.977	1.00	19.58	B	N
ATOM	2390	C GLN B 49	7.357	77.934	57.091	1.00	15.00	B	C
ATOM	2391	O GLN B 49	7.754	78.773	57.898	1.00	15.49	B	O
ATOM	2392	N PHE B 50	7.732	77.936	55.812	1.00	13.73	B	N
ATOM	2393	CA PHE B 50	8.617	78.978	55.297	1.00	12.73	B	C
ATOM	2394	CB PHE B 50	8.813	78.845	53.784	1.00	12.69	B	C
ATOM	2395	CG PHE B 50	9.756	77.740	53.372	1.00	14.11	B	C
ATOM	2396	CD1 PHE B 50	10.540	77.073	54.310	1.00	13.47	B	C
ATOM	2397	CD2 PHE B 50	9.884	77.396	52.028	1.00	16.97	B	C
ATOM	2398	CE1 PHE B 50	11.442	76.080	53.915	1.00	14.96	B	C
ATOM	2399	CE2 PHE B 50	10.784	76.405	51.622	1.00	16.26	B	C
ATOM	2400	CZ PHE B 50	11.563	75.747	52.569	1.00	13.12	B	C
ATOM	2401	C PHE B 50	7.999	80.348	55.586	1.00	12.88	B	C
ATOM	2402	O PHE B 50	8.690	81.281	55.998	1.00	14.04	B	O
ATOM	2403	N GLY B 51	6.692	80.460	55.353	1.00	13.99	B	N
ATOM	2404	CA GLY B 51	5.992	81.712	55.590	1.00	13.72	B	C
ATOM	2405	C GLY B 51	6.023	82.158	57.043	1.00	14.83	B	C
ATOM	2406	O GLY B 51	6.243	83.334	57.331	1.00	11.98	B	O
ATOM	2407	N LEU B 52	5.788	81.227	57.966	1.00	15.32	B	N
ATOM	2408	CA LEU B 52	5.815	81.555	59.388	1.00	18.38	B	C
ATOM	2409	CB LEU B 52	5.525	80.320	60.248	1.00	18.53	B	C
ATOM	2410	CG LEU B 52	4.074	79.939	60.511	1.00	24.25	B	C
ATOM	2411	CD1 LEU B 52	3.349	79.724	59.198	1.00	27.80	B	C
ATOM	2412	CD2 LEU B 52	4.037	78.679	61.371	1.00	26.46	B	C
ATOM	2413	C LEU B 52	7.184	82.091	59.757	1.00	18.61	B	C
ATOM	2414	O LEU B 52	7.303	83.096	60.455	1.00	21.72	B	O
ATOM	2415	N GLU B 53	8.219	81.404	59.289	1.00	18.50	B	N
ATOM	2416	CA GLU B 53	9.584	81.811	59.573	1.00	17.94	B	C
ATOM	2417	CB GLU B 53	10.551	80.751	59.038	1.00	17.42	B	C
ATOM	2418	CG GLU B 53	10.566	79.507	59.927	1.00	15.49	B	C
ATOM	2419	CD GLU B 53	11.305	78.332	59.323	1.00	17.96	B	C
ATOM	2420	OE1 GLU B 53	12.087	78.534	58.374	1.00	18.58	B	O
ATOM	2421	OE2 GLU B 53	11.105	77.201	59.813	1.00	19.70	B	O
ATOM	2422	C GLU B 53	9.897	83.193	59.005	1.00	18.71	B	C
ATOM	2423	O GLU B 53	10.680	83.945	59.579	1.00	19.86	B	O
ATOM	2424	N ALA B 54	9.271	83.537	57.885	1.00	18.53	B	N
ATOM	2425	CA ALA B 54	9.492	84.848	57.283	1.00	16.14	B	C
ATOM	2426	CB ALA B 54	8.744	84.951	55.954	1.00	13.28	B	C
ATOM	2427	C ALA B 54	9.009	85.934	58.257	1.00	18.34	B	C
ATOM	2428	O ALA B 54	9.636	86.987	58.393	1.00	16.94	B	O
ATOM	2429	N LEU B 55	7.898	85.669	58.941	1.00	17.14	B	N
ATOM	2430	CA LEU B 55	7.361	86.629	59.901	1.00	18.57	B	C
ATOM	2431	CB LEU B 55	6.118	86.060	60.594	1.00	19.89	B	C
ATOM	2432	CG LEU B 55	4.827	85.855	59.795	1.00	20.72	B	C
ATOM	2433	CD1 LEU B 55	3.771	85.221	60.706	1.00	22.99	B	C
ATOM	2434	CD2 LEU B 55	4.321	87.192	59.251	1.00	23.42	B	C
ATOM	2435	C LEU B 55	8.405	86.999	60.956	1.00	18.71	B	C
ATOM	2436	O LEU B 55	8.555	88.170	61.301	1.00	17.21	B	O
ATOM	2437	N ASP B 56	9.131	86.002	61.458	1.00	18.83	B	N
ATOM	2438	CA ASP B 56	10.151	86.241	62.474	1.00	18.36	B	C
ATOM	2439	CB ASP B 56	10.829	84.924	62.881	1.00	21.45	B	C
ATOM	2440	CG ASP B 56	9.875	83.958	63.581	1.00	24.57	B	C
ATOM	2441	OD1 ASP B 56	9.003	84.419	64.344	1.00	27.38	B	O
ATOM	2442	OD2 ASP B 56	10.005	82.729	63.383	1.00	26.87	B	O
ATOM	2443	C ASP B 56	11.211	87.240	62.014	1.00	19.11	B	C
ATOM	2444	O ASP B 56	11.669	88.082	62.792	1.00	17.72	B	O
ATOM	2445	N PHE B 57	11.598	87.154	60.746	1.00	17.66	B	N
ATOM	2446	CA PHE B 57	12.607	88.063	60.216	1.00	16.52	B	C

Figure 6RR

ATOM	2447	CB	PHE	B	57	12.867	87.794	58.732	1.00	16.73	B	C
ATOM	2448	CG	PHE	B	57	13.656	88.879	58.071	1.00	17.10	B	C
ATOM	2449	CD1	PHE	B	57	15.035	88.958	58.247	1.00	19.76	B	C
ATOM	2450	CD2	PHE	B	57	13.010	89.889	57.366	1.00	14.93	B	C
ATOM	2451	CE1	PHE	B	57	15.759	90.031	57.738	1.00	19.78	B	C
ATOM	2452	CE2	PHE	B	57	13.721	90.966	56.854	1.00	19.53	B	C
ATOM	2453	CZ	PHE	B	57	15.100	91.039	57.041	1.00	19.60	B	C
ATOM	2454	C	PHE	B	57	12.222	89.529	60.360	1.00	16.52	B	C
ATOM	2455	O	PHE	B	57	13.057	90.365	60.699	1.00	18.03	B	O
ATOM	2456	N	PHE	B	58	10.962	89.842	60.082	1.00	15.91	B	N
ATOM	2457	CA	PHE	B	58	10.497	91.222	60.144	1.00	18.80	B	C
ATOM	2458	CB	PHE	B	58	9.233	91.385	59.295	1.00	17.22	B	C
ATOM	2459	CG	PHE	B	58	9.465	91.219	57.825	1.00	18.15	B	C
ATOM	2460	CD1	PHE	B	58	9.217	90.004	57.199	1.00	18.00	B	C
ATOM	2461	CD2	PHE	B	58	9.927	92.283	57.061	1.00	17.52	B	C
ATOM	2462	CE1	PHE	B	58	9.423	89.852	55.831	1.00	16.31	B	C
ATOM	2463	CE2	PHE	B	58	10.136	92.142	55.694	1.00	16.57	B	C
ATOM	2464	CZ	PHE	B	58	9.884	90.924	55.077	1.00	17.04	B	C
ATOM	2465	C	PHE	B	58	10.224	91.809	61.522	1.00	18.66	B	C
ATOM	2466	O	PHE	B	58	10.140	93.028	61.662	1.00	21.14	B	O
ATOM	2467	N	LYS	B	59	10.080	90.958	62.531	1.00	19.45	B	N
ATOM	2468	CA	LYS	B	59	9.769	91.429	63.877	1.00	21.34	B	C
ATOM	2469	CB	LYS	B	59	9.816	90.258	64.858	1.00	22.87	B	C
ATOM	2470	CG	LYS	B	59	8.740	89.213	64.571	1.00	27.48	B	C
ATOM	2471	CD	LYS	B	59	8.762	88.088	65.585	1.00	28.84	B	C
ATOM	2472	CE	LYS	B	59	7.612	87.121	65.345	1.00	32.72	B	C
ATOM	2473	NZ	LYS	B	59	6.308	87.829	65.430	1.00	35.68	B	N
ATOM	2474	C	LYS	B	59	10.614	92.596	64.384	1.00	20.43	B	C
ATOM	2475	O	LYS	B	59	10.073	93.621	64.792	1.00	19.96	B	O
ATOM	2476	N	PRO	B	60	11.948	92.468	64.356	1.00	20.32	B	N
ATOM	2477	CD	PRO	B	60	12.784	91.337	63.911	1.00	19.12	B	C
ATOM	2478	CA	PRO	B	60	12.776	93.579	64.837	1.00	19.99	B	C
ATOM	2479	CB	PRO	B	60	14.181	92.980	64.848	1.00	21.24	B	C
ATOM	2480	CG	PRO	B	60	14.131	91.991	63.719	1.00	22.69	B	C
ATOM	2481	C	PRO	B	60	12.690	94.859	63.995	1.00	20.53	B	C
ATOM	2482	O	PRO	B	60	13.030	95.943	64.472	1.00	18.48	B	O
ATOM	2483	N	HIS	B	61	12.221	94.740	62.756	1.00	18.92	B	N
ATOM	2484	CA	HIS	B	61	12.116	95.896	61.871	1.00	20.35	B	C
ATOM	2485	CB	HIS	B	61	12.099	95.433	60.413	1.00	19.99	B	C
ATOM	2486	CG	HIS	B	61	13.409	94.875	59.953	1.00	19.89	B	C
ATOM	2487	CD2	HIS	B	61	13.820	93.599	59.768	1.00	21.62	B	C
ATOM	2488	ND1	HIS	B	61	14.499	95.673	59.678	1.00	21.05	B	N
ATOM	2489	CE1	HIS	B	61	15.526	94.912	59.343	1.00	22.27	B	C
ATOM	2490	NE2	HIS	B	61	15.142	93.649	59.390	1.00	21.05	B	N
ATOM	2491	C	HIS	B	61	10.904	96.770	62.170	1.00	21.73	B	C
ATOM	2492	O	HIS	B	61	10.808	97.899	61.691	1.00	22.05	B	O
ATOM	2493	N	GLU	B	62	9.985	96.242	62.969	1.00	21.87	B	N
ATOM	2494	CA	GLU	B	62	8.792	96.982	63.354	1.00	23.56	B	C
ATOM	2495	CB	GLU	B	62	9.181	98.106	64.318	1.00	24.92	B	C
ATOM	2496	CG	GLU	B	62	10.003	97.606	65.496	1.00	30.01	B	C
ATOM	2497	CD	GLU	B	62	10.361	98.699	66.481	1.00	33.69	B	C
ATOM	2498	OE1	GLU	B	62	10.896	99.743	66.053	1.00	35.60	B	O
ATOM	2499	OE2	GLU	B	62	10.116	98.505	67.688	1.00	36.17	B	O
ATOM	2500	C	GLU	B	62	8.044	97.552	62.157	1.00	22.92	B	C
ATOM	2501	O	GLU	B	62	7.701	98.739	62.126	1.00	21.97	B	O
ATOM	2502	N	ILE	B	63	7.795	96.706	61.164	1.00	19.69	B	N
ATOM	2503	CA	ILE	B	63	7.064	97.144	59.987	1.00	18.17	B	C
ATOM	2504	CB	ILE	B	63	7.236	96.149	58.825	1.00	17.22	B	C

Figure 6SS

ATOM	2505	CG2 ILE B 63	8.686	96.146	58.370	1.00	15.56	B	C
ATOM	2506	CG1 ILE B 63	6.817	94.746	59.269	1.00	15.21	B	C
ATOM	2507	CD1 ILE B 63	6.745	93.736	58.131	1.00	15.19	B	C
ATOM	2508	C ILE B 63	5.590	97.258	60.375	1.00	18.21	B	C
ATOM	2509	O ILE B 63	5.127	96.575	61.294	1.00	17.53	B	O
ATOM	2510	N GLUB 64	4.859	98.125	59.683	1.00	16.97	B	N
ATOM	2511	CA GLUB 64	3.445	98.349	59.985	1.00	17.61	B	C
ATOM	2512	CB GLUB 64	3.089	99.813	59.718	1.00	18.92	B	C
ATOM	2513	CG GLUB 64	3.934	100.801	60.499	1.00	23.07	B	C
ATOM	2514	CD GLUB 64	3.697	102.235	60.067	1.00	26.42	B	C
ATOM	2515	OE1 GLUB 64	2.541	102.702	60.167	1.00	28.70	B	O
ATOM	2516	OE2 GLUB 64	4.667	102.889	59.624	1.00	25.35	B	O
ATOM	2517	C GLUB 64	2.511	97.452	59.187	1.00	16.83	B	C
ATOM	2518	O GLUB 64	1.349	97.259	59.548	1.00	16.07	B	O
ATOM	2519	N LEUB 65	3.035	96.896	58.104	1.00	17.77	B	N
ATOM	2520	CA LEUB 65	2.261	96.031	57.232	1.00	16.43	B	C
ATOM	2521	CB LEUB 65	1.398	96.895	56.302	1.00	18.09	B	C
ATOM	2522	CG LEUB 65	0.640	96.266	55.133	1.00	21.97	B	C
ATOM	2523	CD1 LEUB 65	-0.529	97.164	54.757	1.00	21.04	B	C
ATOM	2524	CD2 LEUB 65	1.572	96.066	53.944	1.00	20.71	B	C
ATOM	2525	C LEUB 65	3.244	95.195	56.430	1.00	14.51	B	C
ATOM	2526	O LEUB 65	4.345	95.648	56.123	1.00	12.92	B	O
ATOM	2527	N LEUB 66	2.853	93.971	56.102	1.00	14.75	B	N
ATOM	2528	CA LEUB 66	3.722	93.092	55.329	1.00	14.89	B	C
ATOM	2529	CB LEUB 66	4.020	91.810	56.110	1.00	14.10	B	C
ATOM	2530	CG LEUB 66	4.753	90.716	55.326	1.00	16.87	B	C
ATOM	2531	CD1 LEUB 66	6.149	91.214	54.949	1.00	16.67	B	C
ATOM	2532	CD2 LEUB 66	4.844	89.433	56.169	1.00	17.63	B	C
ATOM	2533	C LEUB 66	3.091	92.722	53.995	1.00	14.55	B	C
ATOM	2534	O LEUB 66	1.911	92.374	53.923	1.00	16.90	B	O
ATOM	2535	N ILE B 67	3.884	92.813	52.937	1.00	14.59	B	N
ATOM	2536	CA ILE B 67	3.422	92.451	51.610	1.00	14.92	B	C
ATOM	2537	CB ILE B 67	3.775	93.524	50.560	1.00	17.24	B	C
ATOM	2538	CG2 ILE B 67	3.458	93.000	49.150	1.00	14.44	B	C
ATOM	2539	CG1 ILE B 67	2.995	94.815	50.846	1.00	17.41	B	C
ATOM	2540	CD1 ILE B 67	3.287	95.933	49.859	1.00	18.39	B	C
ATOM	2541	C ILE B 67	4.117	91.159	51.207	1.00	13.22	B	C
ATOM	2542	O ILE B 67	5.344	91.077	51.219	1.00	13.66	B	O
ATOM	2543	N VAL B 68	3.330	90.144	50.875	1.00	13.61	B	N
ATOM	2544	CA VAL B 68	3.898	88.878	50.430	1.00	13.77	B	C
ATOM	2545	CB VAL B 68	3.065	87.683	50.915	1.00	12.35	B	C
ATOM	2546	CG1 VAL B 68	3.692	86.381	50.426	1.00	10.26	B	C
ATOM	2547	CG2 VAL B 68	2.991	87.699	52.438	1.00	12.86	B	C
ATOM	2548	C VAL B 68	3.865	88.950	48.907	1.00	12.64	B	C
ATOM	2549	O VAL B 68	2.839	88.673	48.283	1.00	14.77	B	O
ATOM	2550	N ALA B 69	4.988	89.349	48.319	1.00	12.26	B	N
ATOM	2551	CA ALA B 69	5.101	89.499	46.870	1.00	10.06	B	C
ATOM	2552	CB ALA B 69	6.412	90.194	46.529	1.00	9.84	B	C
ATOM	2553	C ALA B 69	5.027	88.163	46.147	1.00	12.35	B	C
ATOM	2554	O ALA B 69	4.635	88.096	44.980	1.00	9.71	B	O
ATOM	2555	N CYS B 70	5.427	87.104	46.844	1.00	11.11	B	N
ATOM	2556	CA CYS B 70	5.418	85.766	46.273	1.00	11.24	B	C
ATOM	2557	CB CYS B 70	6.207	84.816	47.176	1.00	11.62	B	C
ATOM	2558	SG CYS B 70	6.347	83.142	46.504	1.00	12.64	B	S
ATOM	2559	C CYS B 70	4.001	85.229	46.070	1.00	11.05	B	C
ATOM	2560	O CYS B 70	3.205	85.177	47.010	1.00	11.37	B	O
ATOM	2561	N ASN B 71	3.688	84.823	44.840	1.00	12.49	B	N
ATOM	2562	CA ASN B 71	2.365	84.279	44.543	1.00	11.50	B	C

Figure 6TT

ATOM	2563	CB	ASN	B	71	2.157	84.145	43.031	1.00	9.14	B	C
ATOM	2564	CG	ASN	B	71	2.258	85.471	42.306	1.00	11.76	B	C
ATOM	2565	OD1	ASN	B	71	3.344	86.024	42.151	1.00	10.78	B	O
ATOM	2566	ND2	ASN	B	71	1.117	85.996	41.867	1.00	11.54	B	N
ATOM	2567	C	ASN	B	71	2.192	82.909	45.186	1.00	12.35	B	C
ATOM	2568	O	ASN	B	71	1.078	82.526	45.575	1.00	8.22	B	O
ATOM	2569	N	THR	B	72	3.292	82.164	45.270	1.00	11.41	B	N
ATOM	2570	CA	THR	B	72	3.257	80.831	45.863	1.00	12.16	B	C
ATOM	2571	CB	THR	B	72	4.572	80.062	45.611	1.00	13.52	B	C
ATOM	2572	OG1	THR	B	72	4.704	79.791	44.212	1.00	14.69	B	O
ATOM	2573	CG2	THR	B	72	4.581	78.741	46.380	1.00	11.87	B	C
ATOM	2574	C	THR	B	72	3.012	80.915	47.357	1.00	12.59	B	C
ATOM	2575	O	THR	B	72	2.166	80.200	47.892	1.00	14.73	B	O
ATOM	2576	N	ALA	B	73	3.754	81.784	48.034	1.00	13.02	B	N
ATOM	2577	CA	ALA	B	73	3.576	81.953	49.471	1.00	13.51	B	C
ATOM	2578	CB	ALA	B	73	4.676	82.830	50.044	1.00	13.14	B	C
ATOM	2579	C	ALA	B	73	2.206	82.571	49.739	1.00	13.74	B	C
ATOM	2580	O	ALA	B	73	1.580	82.278	50.752	1.00	12.89	B	O
ATOM	2581	N	SER	B	74	1.751	83.437	48.830	1.00	14.66	B	N
ATOM	2582	CA	SER	B	74	0.439	84.066	48.967	1.00	14.25	B	C
ATOM	2583	CB	SER	B	74	0.212	85.099	47.853	1.00	13.54	B	C
ATOM	2584	OG	SER	B	74	0.996	86.268	48.040	1.00	13.45	B	O
ATOM	2585	C	SER	B	74	-0.655	83.002	48.877	1.00	16.32	B	C
ATOM	2586	O	SER	B	74	-1.668	83.065	49.575	1.00	14.08	B	O
ATOM	2587	N	ALA	B	75	-0.443	82.028	48.002	1.00	16.22	B	N
ATOM	2588	CA	ALA	B	75	-1.416	80.966	47.797	1.00	17.85	B	C
ATOM	2589	CB	ALA	B	75	-1.170	80.291	46.449	1.00	18.98	B	C
ATOM	2590	C	ALA	B	75	-1.438	79.911	48.890	1.00	18.56	B	C
ATOM	2591	O	ALA	B	75	-2.498	79.377	49.217	1.00	19.22	B	O
ATOM	2592	N	LEU	B	76	-0.274	79.608	49.455	1.00	17.86	B	N
ATOM	2593	CA	LEU	B	76	-0.196	78.570	50.473	1.00	19.90	B	C
ATOM	2594	CB	LEU	B	76	0.921	77.580	50.131	1.00	19.60	B	C
ATOM	2595	CG	LEU	B	76	0.703	76.565	49.004	1.00	21.94	B	C
ATOM	2596	CD1	LEU	B	76	-0.579	75.764	49.283	1.00	19.11	B	C
ATOM	2597	CD2	LEU	B	76	0.610	77.284	47.670	1.00	23.22	B	C
ATOM	2598	C	LEU	B	76	-0.021	78.978	51.925	1.00	19.97	B	C
ATOM	2599	O	LEU	B	76	-0.643	78.388	52.800	1.00	19.54	B	O
ATOM	2600	N	ALA	B	77	0.815	79.980	52.183	1.00	20.55	B	N
ATOM	2601	CA	ALA	B	77	1.111	80.380	53.559	1.00	22.00	B	C
ATOM	2602	CB	ALA	B	77	2.616	80.581	53.700	1.00	20.40	B	C
ATOM	2603	C	ALA	B	77	0.392	81.590	54.149	1.00	21.97	B	C
ATOM	2604	O	ALA	B	77	0.420	81.792	55.365	1.00	17.66	B	O
ATOM	2605	N	LEU	B	78	-0.247	82.386	53.299	1.00	23.46	B	N
ATOM	2606	CA	LEU	B	78	-0.916	83.595	53.757	1.00	24.17	B	C
ATOM	2607	CB	LEU	B	78	-1.634	84.271	52.583	1.00	23.46	B	C
ATOM	2608	CG	LEU	B	78	-2.166	85.692	52.799	1.00	24.62	B	C
ATOM	2609	CD1	LEU	B	78	-1.042	86.612	53.256	1.00	25.18	B	C
ATOM	2610	CD2	LEU	B	78	-2.770	86.204	51.499	1.00	21.11	B	C
ATOM	2611	C	LEU	B	78	-1.885	83.387	54.918	1.00	23.63	B	C
ATOM	2612	O	LEU	B	78	-1.820	84.098	55.918	1.00	20.90	B	O
ATOM	2613	N	GLU	B	79	-2.775	82.410	54.798	1.00	24.20	B	N
ATOM	2614	CA	GLU	B	79	-3.744	82.171	55.856	1.00	25.27	B	C
ATOM	2615	CB	GLU	B	79	-4.643	80.987	55.496	1.00	27.94	B	C
ATOM	2616	CG	GLU	B	79	-5.845	80.830	56.417	1.00	34.09	B	C
ATOM	2617	CD	GLU	B	79	-6.760	79.694	55.997	1.00	36.98	B	C
ATOM	2618	OE1	GLU	B	79	-7.246	79.714	54.847	1.00	38.97	B	O
ATOM	2619	OE2	GLU	B	79	-6.994	78.781	56.818	1.00	40.71	B	O
ATOM	2620	C	GLU	B	79	-3.066	81.921	57.199	1.00	24.66	B	C

Figure 6UU

ATOM	2621	O	GLU	B	79	-3.434	82.519	58.208	1.00	21.76	B	O
ATOM	2622	N	GLU	B	80	-2.063	81.050	57.213	1.00	25.11	B	N
ATOM	2623	CA	GLU	B	80	-1.367	80.740	58.455	1.00	25.16	B	C
ATOM	2624	CB	GLU	B	80	-0.425	79.549	58.249	1.00	30.59	B	C
ATOM	2625	CG	GLU	B	80	-0.324	78.632	59.464	1.00	36.68	B	C
ATOM	2626	CD	GLU	B	80	-1.674	78.055	59.876	1.00	39.61	B	C
ATOM	2627	OE1	GLU	B	80	-2.275	77.297	59.085	1.00	42.54	B	O
ATOM	2628	OE2	GLU	B	80	-2.139	78.363	60.993	1.00	41.38	B	O
ATOM	2629	C	GLU	B	80	-0.587	81.942	58.987	1.00	24.73	B	C
ATOM	2630	O	GLU	B	80	-0.590	82.211	60.190	1.00	24.93	B	O
ATOM	2631	N	MET	B	81	0.072	82.670	58.092	1.00	22.49	B	N
ATOM	2632	CA	MET	B	81	0.851	83.838	58.492	1.00	20.82	B	C
ATOM	2633	CB	MET	B	81	1.559	84.437	57.275	1.00	18.38	B	C
ATOM	2634	CG	MET	B	81	2.671	83.563	56.717	1.00	18.17	B	C
ATOM	2635	SD	MET	B	81	3.255	84.147	55.112	1.00	17.68	B	S
ATOM	2636	CE	MET	B	81	4.308	85.481	55.573	1.00	12.45	B	C
ATOM	2637	C	MET	B	81	-0.015	84.907	59.155	1.00	20.81	B	C
ATOM	2638	O	MET	B	81	0.382	85.508	60.154	1.00	19.23	B	O
ATOM	2639	N	GLN	B	82	-1.193	85.145	58.589	1.00	20.82	B	N
ATOM	2640	CA	GLN	B	82	-2.111	86.145	59.129	1.00	22.97	B	C
ATOM	2641	CB	GLN	B	82	-3.286	86.367	58.168	1.00	23.14	B	C
ATOM	2642	CG	GLN	B	82	-2.861	86.867	56.787	1.00	22.68	B	C
ATOM	2643	CD	GLN	B	82	-4.024	87.016	55.821	1.00	25.48	B	C
ATOM	2644	OE1	GLN	B	82	-4.830	86.097	55.650	1.00	24.87	B	O
ATOM	2645	NE2	GLN	B	82	-4.110	88.175	55.172	1.00	25.37	B	N
ATOM	2646	C	GLN	B	82	-2.627	85.695	60.482	1.00	22.69	B	C
ATOM	2647	O	GLN	B	82	-2.905	86.514	61.357	1.00	22.32	B	O
ATOM	2648	N	LYS	B	83	-2.752	84.387	60.656	1.00	24.09	B	N
ATOM	2649	CA	LYS	B	83	-3.235	83.851	61.918	1.00	25.60	B	C
ATOM	2650	CB	LYS	B	83	-3.376	82.328	61.829	1.00	27.86	B	C
ATOM	2651	CG	LYS	B	83	-3.766	81.658	63.141	1.00	32.07	B	C
ATOM	2652	CD	LYS	B	83	-3.799	80.148	62.990	1.00	33.64	B	C
ATOM	2653	CE	LYS	B	83	-4.118	79.453	64.308	1.00	38.06	B	C
ATOM	2654	NZ	LYS	B	83	-4.127	77.965	64.142	1.00	38.15	B	N
ATOM	2655	C	LYS	B	83	-2.298	84.218	63.065	1.00	25.66	B	C
ATOM	2656	O	LYS	B	83	-2.750	84.586	64.149	1.00	23.94	B	O
ATOM	2657	N	TYR	B	84	-0.993	84.134	62.825	1.00	25.08	B	N
ATOM	2658	CA	TYR	B	84	-0.022	84.442	63.870	1.00	24.54	B	C
ATOM	2659	CB	TYR	B	84	1.063	83.367	63.913	1.00	27.22	B	C
ATOM	2660	CG	TYR	B	84	0.542	81.986	64.219	1.00	30.76	B	C
ATOM	2661	CD1	TYR	B	84	0.162	81.119	63.195	1.00	31.28	B	C
ATOM	2662	CE1	TYR	B	84	-0.325	79.844	63.476	1.00	34.59	B	C
ATOM	2663	CD2	TYR	B	84	0.421	81.546	65.538	1.00	32.96	B	C
ATOM	2664	CE2	TYR	B	84	-0.066	80.276	65.832	1.00	35.61	B	C
ATOM	2665	CZ	TYR	B	84	-0.435	79.430	64.797	1.00	36.06	B	C
ATOM	2666	OH	TYR	B	84	-0.904	78.167	65.089	1.00	37.33	B	O
ATOM	2667	C	TYR	B	84	0.641	85.808	63.764	1.00	23.89	B	C
ATOM	2668	O	TYR	B	84	1.704	86.030	64.341	1.00	25.50	B	O
ATOM	2669	N	SER	B	85	0.014	86.726	63.040	1.00	22.10	B	N
ATOM	2670	CA	SER	B	85	0.563	88.067	62.874	1.00	21.74	B	C
ATOM	2671	CB	SER	B	85	0.884	88.323	61.397	1.00	19.79	B	C
ATOM	2672	OG	SER	B	85	1.259	89.673	61.181	1.00	25.60	B	O
ATOM	2673	C	SER	B	85	-0.413	89.127	63.374	1.00	21.62	B	C
ATOM	2674	O	SER	B	85	-1.621	89.009	63.177	1.00	21.34	B	O
ATOM	2675	N	LYS	B	86	0.107	90.157	64.031	1.00	20.33	B	N
ATOM	2676	CA	LYS	B	86	-0.750	91.221	64.519	1.00	22.30	B	C
ATOM	2677	CB	LYS	B	86	-0.235	91.776	65.853	1.00	25.37	B	C
ATOM	2678	CG	LYS	B	86	1.182	92.304	65.826	1.00	31.07	B	C

Figure 6VV

ATOM	2679	CD	LYS	B	86	1.629	92.685	67.231	1.00	35.40	B	C
ATOM	2680	CE	LYS	B	86	1.562	91.486	68.175	1.00	35.66	B	C
ATOM	2681	NZ	LYS	B	86	1.952	91.849	69.565	1.00	39.76	B	N
ATOM	2682	C	LYS	B	86	-0.860	92.333	63.482	1.00	22.13	B	C
ATOM	2683	O	LYS	B	86	-1.871	93.028	63.433	1.00	23.41	B	O
ATOM	2684	N	ILE	B	87	0.169	92.499	62.649	1.00	20.24	B	N
ATOM	2685	CA	ILE	B	87	0.127	93.524	61.605	1.00	18.31	B	C
ATOM	2686	CB	ILE	B	87	1.543	94.004	61.181	1.00	16.92	B	C
ATOM	2687	CG2	ILE	B	87	2.244	94.688	62.359	1.00	18.70	B	C
ATOM	2688	CG1	ILE	B	87	2.361	92.822	60.650	1.00	17.63	B	C
ATOM	2689	CD1	ILE	B	87	3.721	93.203	60.117	1.00	17.00	B	C
ATOM	2690	C	ILE	B	87	-0.559	92.921	60.384	1.00	17.72	B	C
ATOM	2691	O	ILE	B	87	-0.553	91.707	60.193	1.00	18.08	B	O
ATOM	2692	N	PRO	B	88	-1.173	93.762	59.542	1.00	18.77	B	N
ATOM	2693	CD	PRO	B	88	-1.340	95.223	59.619	1.00	17.15	B	C
ATOM	2694	CA	PRO	B	88	-1.839	93.216	58.358	1.00	19.35	B	C
ATOM	2695	CB	PRO	B	88	-2.575	94.428	57.789	1.00	20.10	B	C
ATOM	2696	CG	PRO	B	88	-1.691	95.572	58.194	1.00	21.95	B	C
ATOM	2697	C	PRO	B	88	-0.844	92.619	57.360	1.00	18.71	B	C
ATOM	2698	O	PRO	B	88	0.247	93.148	57.163	1.00	18.85	B	O
ATOM	2699	N	ILE	B	89	-1.222	91.498	56.759	1.00	17.91	B	N
ATOM	2700	CA	ILE	B	89	-0.387	90.848	55.757	1.00	17.91	B	C
ATOM	2701	CB	ILE	B	89	-0.011	89.404	56.164	1.00	18.44	B	C
ATOM	2702	CG2	ILE	B	89	0.952	88.807	55.133	1.00	18.14	B	C
ATOM	2703	CG1	ILE	B	89	0.658	89.408	57.543	1.00	21.01	B	C
ATOM	2704	CD1	ILE	B	89	1.125	88.043	58.007	1.00	18.58	B	C
ATOM	2705	C	ILE	B	89	-1.202	90.823	54.466	1.00	17.23	B	C
ATOM	2706	O	ILE	B	89	-2.323	90.305	54.425	1.00	17.75	B	O
ATOM	2707	N	VAL	B	90	-0.642	91.403	53.414	1.00	16.10	B	N
ATOM	2708	CA	VAL	B	90	-1.334	91.467	52.141	1.00	15.66	B	C
ATOM	2709	CB	VAL	B	90	-1.436	92.934	51.651	1.00	17.82	B	C
ATOM	2710	CG1	VAL	B	90	-2.241	93.001	50.351	1.00	17.58	B	C
ATOM	2711	CG2	VAL	B	90	-2.074	93.805	52.739	1.00	18.13	B	C
ATOM	2712	C	VAL	B	90	-0.612	90.640	51.088	1.00	13.43	B	C
ATOM	2713	O	VAL	B	90	0.567	90.869	50.812	1.00	14.69	B	O
ATOM	2714	N	GLY	B	91	-1.332	89.681	50.511	1.00	13.52	B	N
ATOM	2715	CA	GLY	B	91	-0.773	88.827	49.474	1.00	12.39	B	C
ATOM	2716	C	GLY	B	91	-1.085	89.387	48.093	1.00	14.87	B	C
ATOM	2717	O	GLY	B	91	-1.754	90.414	47.982	1.00	13.52	B	O
ATOM	2718	N	VAL	B	92	-0.618	88.715	47.041	1.00	13.75	B	N
ATOM	2719	CA	VAL	B	92	-0.840	89.190	45.676	1.00	14.98	B	C
ATOM	2720	CB	VAL	B	92	0.447	89.066	44.819	1.00	14.03	B	C
ATOM	2721	CG1	VAL	B	92	1.442	90.130	45.234	1.00	9.89	B	C
ATOM	2722	CG2	VAL	B	92	1.056	87.672	44.978	1.00	12.60	B	C
ATOM	2723	C	VAL	B	92	-1.975	88.505	44.922	1.00	16.65	B	C
ATOM	2724	O	VAL	B	92	-2.194	88.786	43.746	1.00	17.87	B	O
ATOM	2725	N	ILE	B	93	-2.702	87.616	45.585	1.00	16.90	B	N
ATOM	2726	CA	ILE	B	93	-3.798	86.933	44.909	1.00	17.60	B	C
ATOM	2727	CB	ILE	B	93	-3.993	85.514	45.469	1.00	18.08	B	C
ATOM	2728	CG2	ILE	B	93	-5.148	84.825	44.757	1.00	15.25	B	C
ATOM	2729	CG1	ILE	B	93	-2.693	84.722	45.291	1.00	18.10	B	C
ATOM	2730	CD1	ILE	B	93	-2.803	83.256	45.609	1.00	20.71	B	C
ATOM	2731	C	ILE	B	93	-5.125	87.693	44.971	1.00	18.37	B	C
ATOM	2732	O	ILE	B	93	-5.720	87.983	43.930	1.00	19.27	B	O
ATOM	2733	N	GLU	B	94	-5.590	88.021	46.176	1.00	18.78	B	N
ATOM	2734	CA	GLU	B	94	-6.859	88.742	46.315	1.00	21.11	B	C
ATOM	2735	CB	GLU	B	94	-7.198	88.977	47.789	1.00	23.95	B	C
ATOM	2736	CG	GLU	B	94	-7.565	87.705	48.536	1.00	28.58	B	C

Figure 6WW

ATOM	2737	CD	GLU	B	94	-8.651	86.906	47.831	1.00	33.34	B	C
ATOM	2738	OE1	GLU	B	94	-9.700	87.494	47.484	1.00	32.87	B	O
ATOM	2739	OE2	GLU	B	94	-8.453	85.686	47.627	1.00	36.08	B	O
ATOM	2740	C	GLU	B	94	-6.873	90.073	45.568	1.00	20.94	B	C
ATOM	2741	O	GLU	B	94	-7.882	90.439	44.960	1.00	21.06	B	O
ATOM	2742	N	PRO	B	95	-5.760	90.823	45.615	1.00	19.29	B	N
ATOM	2743	CD	PRO	B	95	-4.581	90.667	46.487	1.00	17.34	B	C
ATOM	2744	CA	PRO	B	95	-5.714	92.108	44.909	1.00	19.84	B	C
ATOM	2745	CB	PRO	B	95	-4.301	92.603	45.196	1.00	18.81	B	C
ATOM	2746	CG	PRO	B	95	-4.058	92.087	46.580	1.00	19.00	B	C
ATOM	2747	C	PRO	B	95	-5.971	91.933	43.415	1.00	18.63	B	C
ATOM	2748	O	PRO	B	95	-6.588	92.786	42.771	1.00	19.30	B	O
ATOM	2749	N	SER	B	96	-5.485	90.824	42.867	1.00	20.23	B	N
ATOM	2750	CA	SER	B	96	-5.661	90.532	41.451	1.00	19.54	B	C
ATOM	2751	CB	SER	B	96	-4.752	89.380	41.032	1.00	20.19	B	C
ATOM	2752	OG	SER	B	96	-3.398	89.803	41.022	1.00	21.10	B	O
ATOM	2753	C	SER	B	96	-7.107	90.194	41.137	1.00	19.82	B	C
ATOM	2754	O	SER	B	96	-7.623	90.554	40.076	1.00	18.36	B	O
ATOM	2755	N	ILE	B	97	-7.761	89.496	42.060	1.00	19.40	B	N
ATOM	2756	CA	ILE	B	97	-9.159	89.129	41.869	1.00	21.46	B	C
ATOM	2757	CB	ILE	B	97	-9.702	88.310	43.066	1.00	20.75	B	C
ATOM	2758	CG2	ILE	B	97	-11.185	88.032	42.872	1.00	23.74	B	C
ATOM	2759	CG1	ILE	B	97	-8.929	86.996	43.205	1.00	20.33	B	C
ATOM	2760	CD1	ILE	B	97	-9.130	86.028	42.048	1.00	18.39	B	C
ATOM	2761	C	ILE	B	97	-9.985	90.408	41.741	1.00	20.42	B	C
ATOM	2762	O	ILE	B	97	-10.881	90.502	40.904	1.00	21.88	B	O
ATOM	2763	N	LEU	B	98	-9.670	91.393	42.575	1.00	22.89	B	N
ATOM	2764	CA	LEU	B	98	-10.378	92.668	42.561	1.00	22.94	B	C
ATOM	2765	CB	LEU	B	98	-9.918	93.539	43.734	1.00	24.42	B	C
ATOM	2766	CG	LEU	B	98	-10.197	92.998	45.143	1.00	24.87	B	C
ATOM	2767	CD1	LEU	B	98	-9.532	93.893	46.172	1.00	27.53	B	C
ATOM	2768	CD2	LEU	B	98	-11.701	92.922	45.389	1.00	25.92	B	C
ATOM	2769	C	LEU	B	98	-10.150	93.411	41.249	1.00	23.55	B	C
ATOM	2770	O	LEU	B	98	-11.067	94.032	40.708	1.00	24.17	B	O
ATOM	2771	N	ALA	B	99	-8.924	93.351	40.740	1.00	23.11	B	N
ATOM	2772	CA	ALA	B	99	-8.594	94.025	39.491	1.00	22.89	B	C
ATOM	2773	CB	ALA	B	99	-7.110	93.904	39.208	1.00	22.27	B	C
ATOM	2774	C	ALA	B	99	-9.390	93.395	38.362	1.00	21.70	B	C
ATOM	2775	O	ALA	B	99	-9.921	94.090	37.497	1.00	18.65	B	O
ATOM	2776	N	ILE	B	100	-9.457	92.068	38.377	1.00	19.64	B	N
ATOM	2777	CA	ILE	B	100	-10.190	91.331	37.363	1.00	19.82	B	C
ATOM	2778	CB	ILE	B	100	-10.044	89.803	37.568	1.00	21.33	B	C
ATOM	2779	CG2	ILE	B	100	-11.118	89.054	36.784	1.00	19.75	B	C
ATOM	2780	CG1	ILE	B	100	-8.644	89.357	37.134	1.00	20.47	B	C
ATOM	2781	CD1	ILE	B	100	-8.425	87.859	37.227	1.00	23.03	B	C
ATOM	2782	C	ILE	B	100	-11.664	91.717	37.413	1.00	20.18	B	C
ATOM	2783	O	ILE	B	100	-12.310	91.842	36.378	1.00	17.92	B	O
ATOM	2784	N	LYS	B	101	-12.192	91.910	38.617	1.00	21.96	B	N
ATOM	2785	CA	LYS	B	101	-13.594	92.296	38.755	1.00	24.71	B	C
ATOM	2786	CB	LYS	B	101	-13.980	92.434	40.229	1.00	25.47	B	C
ATOM	2787	CG	LYS	B	101	-14.034	91.120	40.988	1.00	30.47	B	C
ATOM	2788	CD	LYS	B	101	-14.348	91.358	42.460	1.00	36.47	B	C
ATOM	2789	CE	LYS	B	101	-15.720	91.992	42.654	1.00	39.30	B	C
ATOM	2790	NZ	LYS	B	101	-15.973	92.336	44.087	1.00	42.89	B	N
ATOM	2791	C	LYS	B	101	-13.831	93.623	38.041	1.00	24.26	B	C
ATOM	2792	O	LYS	B	101	-14.846	93.797	37.369	1.00	25.28	B	O
ATOM	2793	N	ARG	B	102	-12.886	94.548	38.185	1.00	23.53	B	N
ATOM	2794	CA	ARG	B	102	-12.986	95.865	37.559	1.00	24.45	B	C

Figure 6XX

ATOM	2795	CB	ARG B 102	-11.976	96.835	38.182	1.00	24.23	B	C
ATOM	2796	CG	ARG B 102	-12.234	97.217	39.625	1.00	25.40	B	C
ATOM	2797	CD	ARG B 102	-11.276	98.316	40.054	1.00	26.37	B	C
ATOM	2798	NE	ARG B 102	-9.888	97.863	40.086	1.00	27.81	B	N
ATOM	2799	CZ	ARG B 102	-9.328	97.229	41.114	1.00	27.91	B	C
ATOM	2800	NH1	ARG B 102	-10.035	96.972	42.206	1.00	27.77	B	N
ATOM	2801	NH2	ARG B 102	-8.058	96.857	41.051	1.00	22.49	B	N
ATOM	2802	C	ARG B 102	-12.747	95.846	36.051	1.00	23.56	B	C
ATOM	2803	O	ARG B 102	-13.394	96.576	35.306	1.00	21.65	B	O
ATOM	2804	N	GLN B 103	-11.816	95.010	35.605	1.00	22.46	B	N
ATOM	2805	CA	GLN B 103	-11.474	94.951	34.189	1.00	22.58	B	C
ATOM	2806	CB	GLN B 103	-9.972	94.728	34.036	1.00	21.32	B	C
ATOM	2807	CG	GLN B 103	-9.126	95.766	34.733	1.00	22.61	B	C
ATOM	2808	CD	GLN B 103	-7.659	95.405	34.712	1.00	22.94	B	C
ATOM	2809	OE1	GLN B 103	-7.074	95.216	33.647	1.00	24.42	B	O
ATOM	2810	NE2	GLN B 103	-7.055	95.305	35.890	1.00	22.74	B	N
ATOM	2811	C	GLN B 103	-12.206	93.918	33.349	1.00	22.98	B	C
ATOM	2812	O	GLN B 103	-12.221	94.020	32.126	1.00	23.73	B	O
ATOM	2813	N	VAL B 104	-12.807	92.925	33.989	1.00	22.89	B	N
ATOM	2814	CA	VAL B 104	-13.500	91.881	33.241	1.00	24.65	B	C
ATOM	2815	CB	VAL B 104	-12.796	90.518	33.427	1.00	25.96	B	C
ATOM	2816	CG1	VAL B 104	-13.465	89.462	32.568	1.00	25.99	B	C
ATOM	2817	CG2	VAL B 104	-11.321	90.643	33.066	1.00	24.05	B	C
ATOM	2818	C	VAL B 104	-14.957	91.752	33.663	1.00	26.14	B	C
ATOM	2819	O	VAL B 104	-15.284	90.975	34.557	1.00	23.04	B	O
ATOM	2820	N	GLU B 105	-15.821	92.515	33.000	1.00	28.13	B	N
ATOM	2821	CA	GLU B 105	-17.253	92.520	33.289	1.00	31.78	B	C
ATOM	2822	CB	GLU B 105	-17.923	93.703	32.581	1.00	37.19	B	C
ATOM	2823	CG	GLU B 105	-17.318	95.053	32.940	1.00	47.02	B	C
ATOM	2824	CD	GLU B 105	-17.983	96.226	32.231	1.00	50.74	B	C
ATOM	2825	OE1	GLU B 105	-18.016	96.247	30.979	1.00	51.99	B	O
ATOM	2826	OE2	GLU B 105	-18.469	97.136	32.933	1.00	54.70	B	O
ATOM	2827	C	GLU B 105	-17.953	91.231	32.877	1.00	29.48	B	C
ATOM	2828	O	GLU B 105	-18.915	90.807	33.518	1.00	32.30	B	O
ATOM	2829	N	ASP B 106	-17.471	90.608	31.808	1.00	27.12	B	N
ATOM	2830	CA	ASP B 106	-18.067	89.377	31.310	1.00	26.01	B	C
ATOM	2831	CB	ASP B 106	-17.666	89.167	29.850	1.00	26.98	B	C
ATOM	2832	CG	ASP B 106	-18.215	87.881	29.272	1.00	28.23	B	C
ATOM	2833	OD1	ASP B 106	-19.054	87.232	29.930	1.00	28.83	B	O
ATOM	2834	OD2	ASP B 106	-17.807	87.521	28.147	1.00	31.85	B	O
ATOM	2835	C	ASP B 106	-17.666	88.168	32.147	1.00	25.85	B	C
ATOM	2836	O	ASP B 106	-16.517	87.736	32.118	1.00	24.84	B	O
ATOM	2837	N	LYS B 107	-18.628	87.626	32.890	1.00	25.49	B	N
ATOM	2838	CA	LYS B 107	-18.396	86.472	33.754	1.00	27.31	B	C
ATOM	2839	CB	LYS B 107	-19.633	86.210	34.622	1.00	29.26	B	C
ATOM	2840	CG	LYS B 107	-19.948	87.328	35.600	1.00	32.01	B	C
ATOM	2841	CD	LYS B 107	-18.757	87.611	36.512	1.00	33.91	B	C
ATOM	2842	CE	LYS B 107	-19.056	88.718	37.516	1.00	34.29	B	C
ATOM	2843	NZ	LYS B 107	-19.369	90.016	36.853	1.00	41.19	B	N
ATOM	2844	C	LYS B 107	-18.044	85.203	32.991	1.00	26.67	B	C
ATOM	2845	O	LYS B 107	-17.508	84.254	33.565	1.00	28.78	B	O
ATOM	2846	N	ASN B 108	-18.337	85.187	31.698	1.00	26.36	B	N
ATOM	2847	CA	ASN B 108	-18.059	84.019	30.875	1.00	27.30	B	C
ATOM	2848	CB	ASN B 108	-19.176	83.833	29.848	1.00	32.21	B	C
ATOM	2849	CG	ASN B 108	-20.509	83.515	30.496	1.00	37.21	B	C
ATOM	2850	OD1	ASN B 108	-20.670	82.470	31.130	1.00	41.66	B	O
ATOM	2851	ND2	ASN B 108	-21.473	84.420	30.350	1.00	39.88	B	N
ATOM	2852	C	ASN B 108	-16.719	84.106	30.160	1.00	25.00	B	C

Figure 6YY

ATOM	2853	O	ASN B 108	-16.318	83.173	29.467	1.00	27.12	B	O
ATOM	2854	N	ALA B 109	-16.029	85.227	30.333	1.00	22.44	B	N
ATOM	2855	CA	ALA B 109	-14.734	85.427	29.696	1.00	22.32	B	C
ATOM	2856	CB	ALA B 109	-14.179	86.795	30.062	1.00	19.60	B	C
ATOM	2857	C	ALA B 109	-13.768	84.334	30.133	1.00	21.09	B	C
ATOM	2858	O	ALA B 109	-13.580	84.107	31.326	1.00	21.33	B	O
ATOM	2859	N	PRO B 110	-13.152	83.635	29.168	1.00	21.10	B	N
ATOM	2860	CD	PRO B 110	-13.315	83.775	27.711	1.00	21.88	B	C
ATOM	2861	CA	PRO B 110	-12.201	82.562	29.485	1.00	21.55	B	C
ATOM	2862	CB	PRO B 110	-11.843	81.988	28.111	1.00	20.46	B	C
ATOM	2863	CG	PRO B 110	-13.002	82.387	27.233	1.00	23.31	B	C
ATOM	2864	C	PRO B 110	-10.974	83.142	30.190	1.00	21.39	B	C
ATOM	2865	Q	PRO B 110	-10.243	83.950	29.615	1.00	20.23	B	O
ATOM	2866	N	ILE B 111	-10.757	82.731	31.433	1.00	20.74	B	N
ATOM	2867	CA	ILE B 111	-9.621	83.220	32.208	1.00	21.29	B	C
ATOM	2868	CB	ILE B 111	-10.085	83.770	33.575	1.00	18.70	B	C
ATOM	2869	CG2	ILE B 111	-8.883	84.214	34.398	1.00	19.35	B	C
ATOM	2870	CG1	ILE B 111	-11.054	84.937	33.365	1.00	17.87	B	C
ATOM	2871	CD1	ILE B 111	-11.768	85.374	34.632	1.00	13.74	B	C
ATOM	2872	C	ILE B 111	-8.618	82.096	32.439	1.00	20.50	B	C
ATOM	2873	O	ILE B 111	-8.983	81.017	32.900	1.00	21.37	B	O
ATOM	2874	N	LEU B 112	-7.358	82.354	32.107	1.00	19.57	B	N
ATOM	2875	CA	LEU B 112	-6.302	81.367	32.285	1.00	18.55	B	C
ATOM	2876	CB	LEU B 112	-5.538	81.154	30.975	1.00	17.95	B	C
ATOM	2877	CG	LEU B 112	-4.340	80.200	31.024	1.00	18.08	B	C
ATOM	2878	CD1	LEU B 112	-4.774	78.812	31.482	1.00	19.26	B	C
ATOM	2879	CD2	LEU B 112	-3.713	80.132	29.640	1.00	16.52	B	C
ATOM	2880	C	LEU B 112	-5.329	81.799	33.370	1.00	18.08	B	C
ATOM	2881	O	LEU B 112	-4.731	82.873	33.291	1.00	19.20	B	O
ATOM	2882	N	VAL B 113	-5.171	80.951	34.380	1.00	16.92	B	N
ATOM	2883	CA	VAL B 113	-4.269	81.231	35.487	1.00	16.68	B	C
ATOM	2884	CB	VAL B 113	-4.863	80.728	36.835	1.00	17.69	B	C
ATOM	2885	CG1	VAL B 113	-3.945	81.110	37.994	1.00	17.55	B	C
ATOM	2886	CG2	VAL B 113	-6.244	81.309	37.050	1.00	17.01	B	C
ATOM	2887	C	VAL B 113	-2.943	80.516	35.243	1.00	16.02	B	C
ATOM	2888	O	VAL B 113	-2.921	79.308	34.999	1.00	14.64	B	O
ATOM	2889	N	LEU B 114	-1.845	81.267	35.291	1.00	14.63	B	N
ATOM	2890	CA	LEU B 114	-0.520	80.692	35.104	1.00	13.92	B	C
ATOM	2891	CB	LEU B 114	0.247	81.395	33.979	1.00	11.65	B	C
ATOM	2892	CG	LEU B 114	-0.330	81.466	32.566	1.00	17.67	B	C
ATOM	2893	CD1	LEU B 114	0.736	82.064	31.644	1.00	16.72	B	C
ATOM	2894	CD2	LEU B 114	-0.738	80.081	32.077	1.00	17.71	B	C
ATOM	2895	C	LEU B 114	0.256	80.881	36.399	1.00	14.25	B	C
ATOM	2896	O	LEU B 114	0.210	81.947	37.005	1.00	11.47	B	O
ATOM	2897	N	GLY B 115	0.984	79.855	36.813	1.00	14.70	B	N
ATOM	2898	CA	GLY B 115	1.757	79.971	38.037	1.00	15.73	B	C
ATOM	2899	C	GLY B 115	2.608	78.746	38.289	1.00	14.74	B	C
ATOM	2900	O	GLY B 115	2.693	77.855	37.451	1.00	13.78	B	O
ATOM	2901	N	THR B 116	3.252	78.706	39.447	1.00	16.02	B	N
ATOM	2902	CA	THR B 116	4.087	77.568	39.798	1.00	15.11	B	C
ATOM	2903	CB	THR B 116	4.916	77.860	41.045	1.00	14.07	B	C
ATOM	2904	OG1	THR B 116	4.040	78.104	42.155	1.00	12.96	B	O
ATOM	2905	CG2	THR B 116	5.800	79.074	40.814	1.00	13.81	B	C
ATOM	2906	C	THR B 116	3.182	76.375	40.083	1.00	15.15	B	C
ATOM	2907	O	THR B 116	1.974	76.528	40.260	1.00	15.43	B	O
ATOM	2908	N	LYS B 117	3.768	75.189	40.124	1.00	14.92	B	N
ATOM	2909	CA	LYS B 117	2.998	73.991	40.401	1.00	16.68	B	C
ATOM	2910	CB	LYS B 117	3.926	72.776	40.462	1.00	18.20	B	C

Figure 6ZZ

ATOM	2911	CG	LYS B 117	3.170	71.459	40.516	1.00	28.15	B	C
ATOM	2912	CD	LYS B 117	2.286	71.334	39.280	1.00	34.68	B	C
ATOM	2913	CE	LYS B 117	1.422	70.089	39.310	1.00	37.95	B	C
ATOM	2914	NZ	LYS B 117	0.628	69.995	38.057	1.00	40.68	B	N
ATOM	2915	C	LYS B 117	2.231	74.125	41.725	1.00	15.54	B	C
ATOM	2916	O	LYS B 117	1.055	73.772	41.811	1.00	13.25	B	O
ATOM	2917	N	ALA B 118	2.896	74.648	42.753	1.00	13.55	B	N
ATOM	2918	CA	ALA B 118	2.263	74.797	44.062	1.00	13.07	B	C
ATOM	2919	CB	ALA B 118	3.294	75.271	45.092	1.00	13.77	B	C
ATOM	2920	C	ALA B 118	1.084	75.755	44.020	1.00	13.96	B	C
ATOM	2921	O	ALA B 118	0.022	75.478	44.584	1.00	12.32	B	O
ATOM	2922	N	THR B 119	1.270	76.887	43.347	1.00	12.40	B	N
ATOM	2923	CA	THR B 119	0.204	77.874	43.248	1.00	14.50	B	C
ATOM	2924	CB	THR B 119	0.698	79.159	42.534	1.00	11.89	B	C
ATOM	2925	OG1	THR B 119	1.739	79.763	43.311	1.00	13.56	B	O
ATOM	2926	CG2	THR B 119	-0.443	80.158	42.373	1.00	12.19	B	C
ATOM	2927	C	THR B 119	-1.005	77.312	42.504	1.00	12.61	B	C
ATOM	2928	O	THR B 119	-2.140	77.473	42.942	1.00	15.20	B	O
ATOM	2929	N	ILE B 120	-0.759	76.641	41.385	1.00	13.07	B	N
ATOM	2930	CA	ILE B 120	-1.847	76.080	40.594	1.00	17.11	B	C
ATOM	2931	CB	ILE B 120	-1.333	75.521	39.242	1.00	15.75	B	C
ATOM	2932	CG2	ILE B 120	-2.499	74.993	38.418	1.00	19.67	B	C
ATOM	2933	CG1	ILE B 120	-0.600	76.620	38.461	1.00	15.38	B	C
ATOM	2934	CD1	ILE B 120	-1.456	77.829	38.120	1.00	19.05	B	C
ATOM	2935	C	ILE B 120	-2.605	74.971	41.331	1.00	17.21	B	C
ATOM	2936	O	ILE B 120	-3.832	74.938	41.309	1.00	18.55	B	O
ATOM	2937	N	GLN B 121	-1.887	74.064	41.984	1.00	17.85	B	N
ATOM	2938	CA	GLN B 121	-2.554	72.983	42.700	1.00	21.02	B	C
ATOM	2939	CB	GLN B 121	-1.539	71.946	43.177	1.00	23.26	B	C
ATOM	2940	CG	GLN B 121	-0.796	71.267	42.053	1.00	31.27	B	C
ATOM	2941	CD	GLN B 121	-0.046	70.038	42.509	1.00	34.42	B	C
ATOM	2942	OE1	GLN B 121	0.702	70.078	43.488	1.00	38.77	B	O
ATOM	2943	NE2	GLN B 121	-0.237	68.933	41.797	1.00	36.80	B	N
ATOM	2944	C	GLN B 121	-3.375	73.477	43.894	1.00	21.84	B	C
ATOM	2945	O	GLN B 121	-4.297	72.795	44.345	1.00	23.51	B	O
ATOM	2946	N	SER B 122	-3.056	74.661	44.404	1.00	20.44	B	N
ATOM	2947	CA	SER B 122	-3.791	75.193	45.549	1.00	20.89	B	C
ATOM	2948	CB	SER B 122	-3.024	76.348	46.208	1.00	20.03	B	C
ATOM	2949	OG	SER B 122	-3.115	77.537	45.438	1.00	19.77	B	O
ATOM	2950	C	SER B 122	-5.178	75.687	45.152	1.00	19.13	B	C
ATOM	2951	O	SER B 122	-6.057	75.812	46.000	1.00	18.67	B	O
ATOM	2952	N	ASN B 123	-5.362	75.960	43.864	1.00	20.34	B	N
ATOM	2953	CA	ASN B 123	-6.626	76.476	43.345	1.00	21.65	B	C
ATOM	2954	CB	ASN B 123	-7.756	75.464	43.543	1.00	24.19	B	C
ATOM	2955	CG	ASN B 123	-7.662	74.302	42.583	1.00	28.22	B	C
ATOM	2956	OD1	ASN B 123	-7.618	74.492	41.368	1.00	28.03	B	O
ATOM	2957	ND2	ASN B 123	-7.632	73.087	43.121	1.00	31.95	B	N
ATOM	2958	C	ASN B 123	-6.990	77.787	44.025	1.00	20.93	B	C
ATOM	2959	O	ASN B 123	-8.162	78.160	44.098	1.00	20.81	B	O
ATOM	2960	N	ALA B 124	-5.977	78.488	44.520	1.00	18.37	B	N
ATOM	2961	CA	ALA B 124	-6.205	79.759	45.187	1.00	19.77	B	C
ATOM	2962	CB	ALA B 124	-4.872	80.387	45.588	1.00	18.94	B	C
ATOM	2963	C	ALA B 124	-6.993	80.715	44.285	1.00	18.40	B	C
ATOM	2964	O	ALA B 124	-8.032	81.239	44.685	1.00	20.72	B	O
ATOM	2965	N	TYR B 125	-6.506	80.936	43.069	1.00	19.24	B	N
ATOM	2966	CA	TYR B 125	-7.184	81.841	42.142	1.00	19.32	B	C
ATOM	2967	CB	TYR B 125	-6.331	82.091	40.892	1.00	19.37	B	C
ATOM	2968	CG	TYR B 125	-5.129	82.989	41.102	1.00	19.31	B	C

Figure 6AAA

ATOM	2969	CD1 TYR B 125	-3.887	82.457	41.439	1.00	17.61	B	C
ATOM	2970	CE1 TYR B 125	-2.768	83.280	41.591	1.00	18.62	B	C
ATOM	2971	CD2 TYR B 125	-5.228	84.371	40.929	1.00	17.15	B	C
ATOM	2972	CE2 TYR B 125	-4.123	85.197	41.078	1.00	16.64	B	C
ATOM	2973	CZ TYR B 125	-2.895	84.646	41.405	1.00	17.43	B	C
ATOM	2974	OH TYR B 125	-1.792	85.454	41.520	1.00	17.10	B	O
ATOM	2975	C TYR B 125	-8.553	81.340	41.696	1.00	19.25	B	C
ATOM	2976	O TYR B 125	-9.528	82.096	41.688	1.00	18.74	B	O
ATOM	2977	N ASP B 126	-8.617	80.071	41.310	1.00	18.47	B	N
ATOM	2978	CA ASP B 126	-9.862	79.473	40.841	1.00	19.68	B	C
ATOM	2979	CB ASP B 126	-9.660	77.986	40.552	1.00	19.72	B	C
ATOM	2980	CG ASP B 126	-8.455	77.720	39.671	1.00	23.51	B	C
ATOM	2981	OD1 ASP B 126	-7.341	78.138	40.042	1.00	24.96	B	O
ATOM	2982	OD2 ASP B 126	-8.621	77.085	38.609	1.00	22.93	B	O
ATOM	2983	C ASP B 126	-10.972	79.635	41.868	1.00	21.84	B	C
ATOM	2984	O ASP B 126	-12.076	80.077	41.541	1.00	18.17	B	O
ATOM	2985	N ASN B 127	-10.676	79.273	43.113	1.00	21.58	B	N
ATOM	2986	CA ASN B 127	-11.659	79.376	44.181	1.00	22.68	B	C
ATOM	2987	CB ASN B 127	-11.081	78.839	45.495	1.00	22.98	B	C
ATOM	2988	CG ASN B 127	-10.656	77.385	45.393	1.00	26.68	B	C
ATOM	2989	OD1 ASN B 127	-11.290	76.591	44.701	1.00	26.92	B	O
ATOM	2990	ND2 ASN B 127	-9.582	77.029	46.092	1.00	29.75	B	N
ATOM	2991	C ASN B 127	-12.105	80.821	44.362	1.00	22.20	B	C
ATOM	2992	O ASN B 127	-13.300	81.104	44.443	1.00	22.96	B	O
ATOM	2993	N ALA B 128	-11.145	81.736	44.422	1.00	21.77	B	N
ATOM	2994	CA ALA B 128	-11.465	83.149	44.587	1.00	22.81	B	C
ATOM	2995	CB ALA B 128	-10.184	83.970	44.693	1.00	24.04	B	C
ATOM	2996	C ALA B 128	-12.315	83.643	43.422	1.00	24.10	B	C
ATOM	2997	O ALA B 128	-13.302	84.354	43.624	1.00	27.04	B	O
ATOM	2998	N LEU B 129	-11.935	83.262	42.205	1.00	24.54	B	N
ATOM	2999	CA LEU B 129	-12.672	83.664	41.012	1.00	24.58	B	C
ATOM	3000	CB LEU B 129	-11.926	83.225	39.753	1.00	22.03	B	C
ATOM	3001	CG LEU B 129	-10.633	83.975	39.418	1.00	24.03	B	C
ATOM	3002	CD1 LEU B 129	-9.865	83.210	38.366	1.00	22.36	B	C
ATOM	3003	CD2 LEU B 129	-10.956	85.382	38.932	1.00	22.58	B	C
ATOM	3004	C LEU B 129	-14.078	83.070	41.005	1.00	26.08	B	C
ATOM	3005	O LEU B 129	-15.046	83.751	40.669	1.00	26.16	B	O
ATOM	3006	N LYS B 130	-14.185	81.795	41.365	1.00	26.80	B	N
ATOM	3007	CA LYS B 130	-15.482	81.130	41.404	1.00	29.37	B	C
ATOM	3008	CB LYS B 130	-15.326	79.694	41.904	1.00	32.59	B	C
ATOM	3009	CG LYS B 130	-16.638	78.939	42.019	1.00	37.42	B	C
ATOM	3010	CD LYS B 130	-17.337	78.877	40.675	1.00	43.42	B	C
ATOM	3011	CE LYS B 130	-18.708	78.237	40.775	1.00	45.02	B	C
ATOM	3012	NZ LYS B 130	-19.379	78.220	39.444	1.00	49.29	B	N
ATOM	3013	C LYS B 130	-16.400	81.897	42.347	1.00	29.56	B	C
ATOM	3014	O LYS B 130	-17.538	82.218	42.010	1.00	28.29	B	O
ATOM	3015	N GLN B 131	-15.876	82.185	43.532	1.00	29.31	B	N
ATOM	3016	CA GLN B 131	-16.599	82.911	44.559	1.00	31.88	B	C
ATOM	3017	CB GLN B 131	-15.667	83.162	45.747	1.00	35.97	B	C
ATOM	3018	CG GLN B 131	-16.286	83.913	46.918	1.00	45.23	B	C
ATOM	3019	CD GLN B 131	-17.385	83.128	47.610	1.00	50.61	B	C
ATOM	3020	OE1 GLN B 131	-17.211	81.951	47.942	1.00	53.57	B	O
ATOM	3021	NE2 GLN B 131	-18.524	83.781	47.843	1.00	52.00	B	N
ATOM	3022	C GLN B 131	-17.137	84.239	44.035	1.00	31.40	B	C
ATOM	3023	O GLN B 131	-18.222	84.675	44.427	1.00	29.81	B	O
ATOM	3024	N GLN B 132	-16.382	84.878	43.145	1.00	29.49	B	N
ATOM	3025	CA GLN B 132	-16.788	86.166	42.597	1.00	29.13	B	C
ATOM	3026	CB GLN B 132	-15.558	87.020	42.290	1.00	30.78	B	C

Figure 6BBB

ATOM	3027	CG	GLN B 132	-14.776	87.410	43.535	1.00	32.44	B	C
ATOM	3028	CD	GLN B 132	-15.644	88.114	44.565	1.00	35.76	B	C
ATOM	3029	OE1	GLN B 132	-16.234	89.158	44.286	1.00	35.79	B	O
ATOM	3030	NE2	GLN B 132	-15.725	87.542	45.763	1.00	34.46	B	N
ATOM	3031	C	GLN B 132	-17.682	86.079	41.368	1.00	29.17	B	C
ATOM	3032	O	GLN B 132	-17.994	87.096	40.747	1.00	28.85	B	O
ATOM	3033	N	GLY B 133	-18.075	84.864	41.004	1.00	28.71	B	N
ATOM	3034	CA	GLY B 133	-18.974	84.700	39.879	1.00	28.15	B	C
ATOM	3035	C	GLY B 133	-18.442	84.343	38.509	1.00	27.61	B	C
ATOM	3036	O	GLY B 133	-19.224	84.310	37.561	1.00	26.00	B	O
ATOM	3037	N	TYR B 134	-17.146	84.078	38.371	1.00	26.83	B	N
ATOM	3038	CA	TYR B 134	-16.627	83.721	37.056	1.00	26.16	B	C
ATOM	3039	CB	TYR B 134	-15.135	84.049	36.961	1.00	24.55	B	C
ATOM	3040	CG	TYR B 134	-14.921	85.545	36.938	1.00	22.77	B	C
ATOM	3041	CD1	TYR B 134	-14.840	86.277	38.123	1.00	22.62	B	C
ATOM	3042	CE1	TYR B 134	-14.760	87.670	38.109	1.00	23.49	B	C
ATOM	3043	CD2	TYR B 134	-14.911	86.246	35.730	1.00	24.51	B	C
ATOM	3044	CE2	TYR B 134	-14.834	87.641	35.702	1.00	25.08	B	C
ATOM	3045	CZ	TYR B 134	-14.759	88.346	36.896	1.00	23.66	B	C
ATOM	3046	OH	TYR B 134	-14.689	89.721	36.886	1.00	24.39	B	O
ATOM	3047	C	TYR B 134	-16.927	82.264	36.729	1.00	26.95	B	C
ATOM	3048	O	TYR B 134	-16.774	81.379	37.571	1.00	26.50	B	O
ATOM	3049	N	LEU B 135	-17.362	82.031	35.494	1.00	25.91	B	N
ATOM	3050	CA	LEU B 135	-17.777	80.704	35.049	1.00	28.31	B	C
ATOM	3051	CB	LEU B 135	-19.155	80.822	34.388	1.00	28.49	B	C
ATOM	3052	CG	LEU B 135	-20.131	81.733	35.139	1.00	28.21	B	C
ATOM	3053	CD1	LEU B 135	-21.343	82.031	34.272	1.00	28.13	B	C
ATOM	3054	CD2	LEU B 135	-20.527	81.077	36.455	1.00	29.07	B	C
ATOM	3055	C	LEU B 135	-16.847	79.940	34.113	1.00	27.36	B	C
ATOM	3056	O	LEU B 135	-17.066	78.758	33.855	1.00	27.87	B	O
ATOM	3057	N	ASN B 136	-15.819	80.602	33.596	1.00	28.12	B	N
ATOM	3058	CA	ASN B 136	-14.892	79.944	32.681	1.00	25.99	B	C
ATOM	3059	CB	ASN B 136	-15.053	80.520	31.276	1.00	27.18	B	C
ATOM	3060	CG	ASN B 136	-14.416	79.652	30.214	1.00	27.92	B	C
ATOM	3061	OD1	ASN B 136	-13.572	78.807	30.509	1.00	28.48	B	O
ATOM	3062	ND2	ASN B 136	-14.809	79.866	28.962	1.00	30.11	B	N
ATOM	3063	C	ASN B 136	-13.460	80.159	33.172	1.00	26.03	B	C
ATOM	3064	O	ASN B 136	-12.749	81.040	32.688	1.00	24.61	B	O
ATOM	3065	N	ILE B 137	-13.046	79.342	34.133	1.00	24.40	B	N
ATOM	3066	CA	ILE B 137	-11.715	79.451	34.716	1.00	24.19	B	C
ATOM	3067	CB	ILE B 137	-11.816	79.575	36.254	1.00	25.00	B	C
ATOM	3068	CG2	ILE B 137	-10.430	79.802	36.857	1.00	26.36	B	C
ATOM	3069	CG1	ILE B 137	-12.752	80.735	36.616	1.00	25.12	B	C
ATOM	3070	CD1	ILE B 137	-13.231	80.738	38.056	1.00	25.56	B	C
ATOM	3071	C	ILE B 137	-10.809	78.268	34.378	1.00	24.30	B	C
ATOM	3072	O	ILE B 137	-11.180	77.114	34.574	1.00	24.24	B	O
ATOM	3073	N	SER B 138	-9.620	78.570	33.865	1.00	22.99	B	N
ATOM	3074	CA	SER B 138	-8.640	77.545	33.520	1.00	23.07	B	C
ATOM	3075	CB	SER B 138	-8.357	77.547	32.016	1.00	21.90	B	C
ATOM	3076	OG	SER B 138	-9.532	77.297	31.271	1.00	28.80	B	O
ATOM	3077	C	SER B 138	-7.345	77.845	34.267	1.00	21.12	B	C
ATOM	3078	O	SER B 138	-7.104	78.986	34.675	1.00	18.88	B	O
ATOM	3079	N	HIS B 139	-6.521	76.820	34.463	1.00	20.44	B	N
ATOM	3080	CA	HIS B 139	-5.242	77.010	35.134	1.00	20.66	B	C
ATOM	3081	CB	HIS B 139	-5.343	76.712	36.639	1.00	20.23	B	C
ATOM	3082	CG	HIS B 139	-5.802	75.322	36.964	1.00	21.50	B	C
ATOM	3083	CD2	HIS B 139	-5.241	74.114	36.716	1.00	22.63	B	C
ATOM	3084	ND1	HIS B 139	-6.984	75.067	37.626	1.00	20.86	B	N

Figure 6CCC

ATOM	3085	CE1 HIS B 139	-7.132	73.761	37.770	1.00	23.65	B	C
ATOM	3086	NE2 HIS B 139	-6.089	73.161	37.226	1.00	23.23	B	N
ATOM	3087	C HIS B 139	-4.172	76.148	34.488	1.00	21.34	B	C
ATOM	3088	O HIS B 139	-4.468	75.120	33.874	1.00	21.81	B	O
ATOM	3089	N LEU B 140	-2.922	76.578	34.614	1.00	21.36	B	N
ATOM	3090	CA LEU B 140	-1.815	75.846	34.023	1.00	20.20	B	C
ATOM	3091	CB LEU B 140	-1.644	76.244	32.558	1.00	21.19	B	C
ATOM	3092	CG LEU B 140	-0.502	75.564	31.800	1.00	21.50	B	C
ATOM	3093	CD1 LEU B 140	-0.790	74.074	31.688	1.00	21.95	B	C
ATOM	3094	CD2 LEU B 140	-0.357	76.190	30.410	1.00	21.96	B	C
ATOM	3095	C LEU B 140	-0.511	76.104	34.758	1.00	19.11	B	C
ATOM	3096	O LEU B 140	-0.098	77.248	34.928	1.00	16.59	B	O
ATOM	3097	N ALA B 141	0.135	75.027	35.186	1.00	19.36	B	N
ATOM	3098	CA ALA B 141	1.405	75.133	35.887	1.00	19.87	B	C
ATOM	3099	CB ALA B 141	1.603	73.918	36.791	1.00	21.48	B	C
ATOM	3100	C ALA B 141	2.531	75.215	34.856	1.00	16.62	B	C
ATOM	3101	O ALA B 141	2.912	74.214	34.261	1.00	20.61	B	O
ATOM	3102	N THR B 142	3.049	76.415	34.630	1.00	15.84	B	N
ATOM	3103	CA THR B 142	4.132	76.600	33.676	1.00	14.20	B	C
ATOM	3104	CB THR B 142	3.948	77.913	32.889	1.00	13.97	B	C
ATOM	3105	OG1 THR B 142	3.814	79.003	33.806	1.00	14.25	B	O
ATOM	3106	CG2 THR B 142	2.691	77.840	32.023	1.00	13.62	B	C
ATOM	3107	C THR B 142	5.410	76.652	34.505	1.00	14.37	B	C
ATOM	3108	O THR B 142	6.114	77.653	34.529	1.00	13.97	B	O
ATOM	3109	N SER B 143	5.698	75.544	35.176	1.00	15.59	B	N
ATOM	3110	CA SER B 143	6.844	75.444	36.067	1.00	16.89	B	C
ATOM	3111	CB SER B 143	6.971	74.013	36.591	1.00	19.31	B	C
ATOM	3112	OG SER B 143	8.003	73.931	37.564	1.00	27.09	B	O
ATOM	3113	C SER B 143	8.193	75.902	35.537	1.00	16.21	B	C
ATOM	3114	O SER B 143	8.892	76.666	36.205	1.00	16.07	B	O
ATOM	3115	N LEU B 144	8.557	75.446	34.345	1.00	15.08	B	N
ATOM	3116	CA LEU B 144	9.850	75.783	33.759	1.00	15.48	B	C
ATOM	3117	CB LEU B 144	10.094	74.929	32.520	1.00	15.32	B	C
ATOM	3118	CG LEU B 144	10.215	73.436	32.827	1.00	16.70	B	C
ATOM	3119	CD1 LEU B 144	10.267	72.642	31.536	1.00	19.80	B	C
ATOM	3120	CD2 LEU B 144	11.468	73.190	33.654	1.00	19.07	B	C
ATOM	3121	C LEU B 144	10.037	77.251	33.421	1.00	14.68	B	C
ATOM	3122	O LEU B 144	11.145	77.678	33.098	1.00	14.35	B	O
ATOM	3123	N PHE B 145	8.962	78.028	33.484	1.00	14.12	B	N
ATOM	3124	CA PHE B 145	9.088	79.447	33.199	1.00	15.35	B	C
ATOM	3125	CB PHE B 145	7.719	80.148	33.232	1.00	13.56	B	C
ATOM	3126	CG PHE B 145	6.911	79.992	31.964	1.00	14.58	B	C
ATOM	3127	CD1 PHE B 145	5.657	80.594	31.852	1.00	13.83	B	C
ATOM	3128	CD2 PHE B 145	7.393	79.252	30.888	1.00	16.08	B	C
ATOM	3129	CE1 PHE B 145	4.899	80.461	30.688	1.00	14.15	B	C
ATOM	3130	CE2 PHE B 145	6.646	79.111	29.720	1.00	15.95	B	C
ATOM	3131	CZ PHE B 145	5.395	79.717	29.620	1.00	14.39	B	C
ATOM	3132	C PHE B 145	10.011	80.084	34.233	1.00	14.15	B	C
ATOM	3133	O PHE B 145	10.821	80.942	33.896	1.00	13.84	B	O
ATOM	3134	N VAL B 146	9.901	79.648	35.488	1.00	14.43	B	N
ATOM	3135	CA VAL B 146	10.721	80.215	36.558	1.00	15.36	B	C
ATOM	3136	CB VAL B 146	10.353	79.617	37.949	1.00	17.29	B	C
ATOM	3137	CG1 VAL B 146	11.367	80.065	38.995	1.00	16.50	B	C
ATOM	3138	CG2 VAL B 146	8.959	80.079	38.369	1.00	14.60	B	C
ATOM	3139	C VAL B 146	12.229	80.086	36.329	1.00	14.39	B	C
ATOM	3140	O VAL B 146	12.935	81.092	36.326	1.00	14.20	B	O
ATOM	3141	N PRO B 147	12.747	78.856	36.144	1.00	14.14	B	N
ATOM	3142	CD PRO B 147	12.141	77.519	36.269	1.00	13.43	B	C

Figure 6DDD

ATOM	3143	CA	PRO B 147	14.195	78.754	35.921	1.00	14.59	B	C
ATOM	3144	CB	PRO B 147	14.457	77.242	35.995	1.00	13.53	B	C
ATOM	3145	CG	PRO B 147	13.151	76.642	35.573	1.00	14.07	B	C
ATOM	3146	C	PRO B 147	14.653	79.377	34.597	1.00	13.40	B	C
ATOM	3147	O	PRO B 147	15.775	79.877	34.500	1.00	13.19	B	O
ATOM	3148	N	LEU B 148	13.796	79.355	33.577	1.00	11.38	B	N
ATOM	3149	CA	LEU B 148	14.179	79.960	32.303	1.00	12.63	B	C
ATOM	3150	CB	LEU B 148	13.100	79.751	31.232	1.00	14.70	B	C
ATOM	3151	CG	LEU B 148	13.404	78.655	30.202	1.00	12.09	B	C
ATOM	3152	CD1	LEU B 148	13.446	77.315	30.903	1.00	14.46	B	C
ATOM	3153	CD2	LEU B 148	12.341	78.649	29.106	1.00	18.20	B	C
ATOM	3154	C	LEU B 148	14.395	81.448	32.508	1.00	12.91	B	C
ATOM	3155	O	LEU B 148	15.372	82.018	32.031	1.00	12.96	B	O
ATOM	3156	N	ILE B 149	13.471	82.070	33.231	1.00	13.00	B	N
ATOM	3157	CA	ILE B 149	13.545	83.500	33.499	1.00	12.87	B	C
ATOM	3158	CB	ILE B 149	12.211	83.989	34.130	1.00	13.86	B	C
ATOM	3159	CG2	ILE B 149	12.352	85.419	34.647	1.00	12.28	B	C
ATOM	3160	CG1	ILE B 149	11.099	83.891	33.071	1.00	14.05	B	C
ATOM	3161	CD1	ILE B 149	9.694	84.067	33.608	1.00	15.21	B	C
ATOM	3162	C	ILE B 149	14.742	83.842	34.386	1.00	12.66	B	C
ATOM	3163	O	ILE B 149	15.403	84.852	34.172	1.00	11.51	B	O
ATOM	3164	N	GLU B 150	15.041	82.995	35.366	1.00	12.92	B	N
ATOM	3165	CA	GLU B 150	16.180	83.266	36.235	1.00	13.66	B	C
ATOM	3166	CB	GLU B 150	16.182	82.313	37.441	1.00	18.92	B	C
ATOM	3167	CG	GLU B 150	14.884	82.371	38.242	1.00	23.46	B	C
ATOM	3168	CD	GLU B 150	15.024	81.875	39.673	1.00	28.25	B	C
ATOM	3169	OE1	GLU B 150	15.728	80.863	39.887	1.00	30.76	B	O
ATOM	3170	OE2	GLU B 150	14.414	82.491	40.581	1.00	24.21	B	O
ATOM	3171	C	GLU B 150	17.491	83.163	35.462	1.00	13.99	B	C
ATOM	3172	O	GLU B 150	18.484	83.776	35.844	1.00	14.58	B	O
ATOM	3173	N	GLU B 151	17.500	82.403	34.370	1.00	13.36	B	N
ATOM	3174	CA	GLU B 151	18.712	82.277	33.571	1.00	16.12	B	C
ATOM	3175	CB	GLU B 151	18.863	80.861	33.006	1.00	18.99	B	C
ATOM	3176	CG	GLU B 151	20.276	80.598	32.500	1.00	25.66	B	C
ATOM	3177	CD	GLU B 151	20.615	79.128	32.403	1.00	27.80	B	C
ATOM	3178	OE1	GLU B 151	20.307	78.389	33.362	1.00	33.36	B	O
ATOM	3179	OE2	GLU B 151	21.204	78.716	31.378	1.00	24.62	B	O
ATOM	3180	C	GLU B 151	18.695	83.293	32.436	1.00	15.49	B	C
ATOM	3181	O	GLU B 151	19.515	83.243	31.522	1.00	16.76	B	O
ATOM	3182	N	SER B 152	17.746	84.218	32.514	1.00	15.83	B	N
ATOM	3183	CA	SER B 152	17.591	85.277	31.523	1.00	16.90	B	C
ATOM	3184	CB	SER B 152	18.843	86.159	31.486	1.00	16.89	B	C
ATOM	3185	OG	SER B 152	18.547	87.404	30.872	1.00	19.93	B	O
ATOM	3186	C	SER B 152	17.274	84.786	30.108	1.00	15.72	B	C
ATOM	3187	O	SER B 152	17.776	85.339	29.128	1.00	16.57	B	O
ATOM	3188	N	ILE B 153	16.452	83.746	30.003	1.00	16.59	B	N
ATOM	3189	CA	ILE B 153	16.048	83.223	28.701	1.00	16.23	B	C
ATOM	3190	CB	ILE B 153	15.840	81.688	28.747	1.00	17.80	B	C
ATOM	3191	CG2	ILE B 153	15.479	81.164	27.366	1.00	16.97	B	C
ATOM	3192	CG1	ILE B 153	17.118	81.008	29.247	1.00	18.17	B	C
ATOM	3193	CD1	ILE B 153	18.328	81.264	28.379	1.00	20.45	B	C
ATOM	3194	C	ILE B 153	14.716	83.924	28.465	1.00	17.00	B	C
ATOM	3195	O	ILE B 153	13.647	83.337	28.649	1.00	16.86	B	O
ATOM	3196	N	LEU B 154	14.802	85.192	28.074	1.00	16.13	B	N
ATOM	3197	CA	LEU B 154	13.629	86.036	27.861	1.00	17.93	B	C
ATOM	3198	CB	LEU B 154	13.891	87.412	28.475	1.00	15.30	B	C
ATOM	3199	CG	LEU B 154	14.390	87.335	29.923	1.00	14.99	B	C
ATOM	3200	CD1	LEU B 154	14.685	88.728	30.459	1.00	17.09	B	C

Figure 6EEE

ATOM	3201	CD2 LEU B 154	13.348	86.640	30.776	1.00	18.19	B	C
ATOM	3202	C LEU B 154	13.188	86.204	26.413	1.00	19.02	B	C
ATOM	3203	O LEU B 154	12.258	86.956	26.125	1.00	18.98	B	O
ATOM	3204	N GLU B 155	13.857	85.506	25.506	1.00	19.46	B	N
ATOM	3205	CA GLU B 155	13.520	85.579	24.093	1.00	20.61	B	C
ATOM	3206	CB GLU B 155	14.055	86.877	23.481	1.00	23.20	B	C
ATOM	3207	CG GLU B 155	15.563	86.894	23.285	1.00	31.50	B	C
ATOM	3208	CD GLU B 155	16.077	88.235	22.778	1.00	39.23	B	C
ATOM	3209	OE1 GLU B 155	15.483	88.786	21.824	1.00	42.91	B	O
ATOM	3210	OE2 GLU B 155	17.084	88.734	23.328	1.00	43.36	B	O
ATOM	3211	C GLU B 155	14.177	84.391	23.421	1.00	19.99	B	C
ATOM	3212	O GLU B 155	14.864	83.610	24.077	1.00	21.64	B	O
ATOM	3213	N GLY B 156	13.946	84.242	22.121	1.00	20.12	B	N
ATOM	3214	CA GLY B 156	14.563	83.152	21.396	1.00	19.17	B	C
ATOM	3215	C GLY B 156	13.844	81.820	21.366	1.00	20.79	B	C
ATOM	3216	O GLY B 156	12.804	81.618	21.995	1.00	18.13	B	O
ATOM	3217	N GLU B 157	14.451	80.898	20.626	1.00	22.19	B	N
ATOM	3218	CA GLU B 157	13.946	79.548	20.415	1.00	21.56	B	C
ATOM	3219	CB GLU B 157	14.952	78.782	19.553	1.00	25.02	B	C
ATOM	3220	CG GLU B 157	14.524	77.377	19.184	1.00	35.87	B	C
ATOM	3221	CD GLU B 157	15.499	76.703	18.231	1.00	41.09	B	C
ATOM	3222	OE1 GLU B 157	16.701	76.596	18.573	1.00	42.82	B	O
ATOM	3223	OE2 GLU B 157	15.058	76.275	17.141	1.00	42.70	B	O
ATOM	3224	C GLU B 157	13.613	78.732	21.666	1.00	20.08	B	C
ATOM	3225	O GLU B 157	12.588	78.044	21.702	1.00	18.27	B	O
ATOM	3226	N LEU B 158	14.471	78.796	22.683	1.00	17.09	B	N
ATOM	3227	CA LEU B 158	14.238	78.033	23.904	1.00	15.87	B	C
ATOM	3228	CB LEU B 158	15.447	78.132	24.842	1.00	18.05	B	C
ATOM	3229	CG LEU B 158	15.334	77.315	26.136	1.00	17.16	B	C
ATOM	3230	CD1 LEU B 158	14.977	75.872	25.807	1.00	15.66	B	C
ATOM	3231	CD2 LEU B 158	16.651	77.382	26.905	1.00	17.03	B	C
ATOM	3232	C LEU B 158	12.973	78.488	24.630	1.00	16.52	B	C
ATOM	3233	O LEU B 158	12.189	77.662	25.108	1.00	14.49	B	O
ATOM	3234	N LEU B 159	12.775	79.799	24.727	1.00	14.92	B	N
ATOM	3235	CA LEU B 159	11.580	80.306	25.383	1.00	14.51	B	C
ATOM	3236	CB LEU B 159	11.660	81.823	25.578	1.00	15.13	B	C
ATOM	3237	CG LEU B 159	10.374	82.456	26.133	1.00	16.38	B	C
ATOM	3238	CD1 LEU B 159	9.996	81.799	27.450	1.00	14.88	B	C
ATOM	3239	CD2 LEU B 159	10.574	83.955	26.326	1.00	15.09	B	C
ATOM	3240	C LEU B 159	10.367	79.951	24.519	1.00	14.59	B	C
ATOM	3241	O LEU B 159	9.350	79.492	25.028	1.00	13.56	B	O
ATOM	3242	N GLU B 160	10.483	80.150	23.209	1.00	14.14	B	N
ATOM	3243	CA GLU B 160	9.382	79.820	22.304	1.00	16.06	B	C
ATOM	3244	CB GLU B 160	9.779	80.107	20.853	1.00	18.15	B	C
ATOM	3245	CG GLU B 160	8.709	79.743	19.815	1.00	23.84	B	C
ATOM	3246	CD GLU B 160	7.357	80.384	20.107	1.00	27.35	B	C
ATOM	3247	OE1 GLU B 160	7.330	81.496	20.683	1.00	24.13	B	O
ATOM	3248	OE2 GLU B 160	6.321	79.783	19.748	1.00	30.37	B	O
ATOM	3249	C GLU B 160	8.987	78.348	22.438	1.00	15.10	B	C
ATOM	3250	O GLU B 160	7.811	78.015	22.566	1.00	16.67	B	O
ATOM	3251	N THR B 161	9.979	77.469	22.416	1.00	15.36	B	N
ATOM	3252	CA THR B 161	9.720	76.037	22.518	1.00	16.10	B	C
ATOM	3253	CB THR B 161	11.024	75.243	22.343	1.00	17.81	B	C
ATOM	3254	OG1 THR B 161	11.607	75.567	21.072	1.00	19.62	B	O
ATOM	3255	CG2 THR B 161	10.756	73.748	22.407	1.00	18.12	B	C
ATOM	3256	C THR B 161	9.066	75.676	23.851	1.00	14.89	B	C
ATOM	3257	O THR B 161	8.172	74.821	23.907	1.00	13.07	B	O
ATOM	3258	N CYS B 162	9.500	76.342	24.918	1.00	12.65	B	N

Figure 6FFF

ATOM	3259	CA	CYS B 162	8.958	76.087	26.248	1.00	15.38	B	C
ATOM	3260	CB	CYS B 162	9.800	76.796	27.310	1.00	14.79	B	C
ATOM	3261	SG	CYS B 162	9.400	76.328	29.021	1.00	16.89	B	S
ATOM	3262	C	CYS B 162	7.505	76.557	26.341	1.00	15.60	B	C
ATOM	3263	O	CYS B 162	6.651	75.849	26.877	1.00	15.21	B	O
ATOM	3264	N	MET B 163	7.226	77.756	25.831	1.00	15.17	B	N
ATOM	3265	CA	MET B 163	5.863	78.271	25.860	1.00	15.78	B	C
ATOM	3266	CB	MET B 163	5.792	79.695	25.294	1.00	15.75	B	C
ATOM	3267	CG	MET B 163	6.424	80.767	26.162	1.00	16.77	B	C
ATOM	3268	SD	MET B 163	5.978	82.432	25.603	1.00	16.61	B	S
ATOM	3269	CE	MET B 163	6.937	82.509	24.114	1.00	14.38	B	C
ATOM	3270	C	MET B 163	4.962	77.360	25.033	1.00	14.99	B	C
ATOM	3271	O	MET B 163	3.819	77.093	25.410	1.00	15.77	B	O
ATOM	3272	N	HIS B 164	5.484	76.879	23.909	1.00	15.34	B	N
ATOM	3273	CA	HIS B 164	4.718	76.002	23.033	1.00	19.25	B	C
ATOM	3274	CB	HIS B 164	5.504	75.724	21.751	1.00	20.62	B	C
ATOM	3275	CG	HIS B 164	4.693	75.055	20.688	1.00	28.25	B	C
ATOM	3276	CD2	HIS B 164	4.779	73.817	20.146	1.00	28.01	B	C
ATOM	3277	ND1	HIS B 164	3.608	75.661	20.090	1.00	29.20	B	N
ATOM	3278	CE1	HIS B 164	3.060	74.824	19.227	1.00	29.23	B	C
ATOM	3279	NE2	HIS B 164	3.750	73.698	19.243	1.00	29.55	B	N
ATOM	3280	C	HIS B 164	4.412	74.690	23.760	1.00	19.47	B	C
ATOM	3281	O	HIS B 164	3.293	74.169	23.704	1.00	17.49	B	O
ATOM	3282	N	TYR B 165	5.419	74.169	24.449	1.00	17.68	B	N
ATOM	3283	CA	TYR B 165	5.277	72.937	25.210	1.00	16.69	B	C
ATOM	3284	CB	TYR B 165	6.578	72.655	25.969	1.00	15.68	B	C
ATOM	3285	CG	TYR B 165	6.457	71.544	26.976	1.00	17.57	B	C
ATOM	3286	CD1	TYR B 165	6.384	70.211	26.569	1.00	16.95	B	C
ATOM	3287	CE1	TYR B 165	6.216	69.191	27.498	1.00	20.45	B	C
ATOM	3288	CD2	TYR B 165	6.362	71.829	28.336	1.00	15.75	B	C
ATOM	3289	CE2	TYR B 165	6.193	70.818	29.273	1.00	17.81	B	C
ATOM	3290	CZ	TYR B 165	6.119	69.501	28.847	1.00	18.80	B	C
ATOM	3291	OH	TYR B 165	5.941	68.500	29.773	1.00	19.07	B	O
ATOM	3292	C	TYR B 165	4.101	73.027	26.193	1.00	16.83	B	C
ATOM	3293	O	TYR B 165	3.303	72.094	26.310	1.00	19.76	B	O
ATOM	3294	N	TYR B 166	3.999	74.151	26.895	1.00	16.40	B	N
ATOM	3295	CA	TYR B 166	2.931	74.369	27.864	1.00	16.70	B	C
ATOM	3296	CB	TYR B 166	3.362	75.435	28.888	1.00	13.68	B	C
ATOM	3297	CG	TYR B 166	4.354	74.961	29.930	1.00	15.63	B	C
ATOM	3298	CD1	TYR B 166	5.545	75.650	30.150	1.00	13.48	B	C
ATOM	3299	CE1	TYR B 166	6.458	75.218	31.113	1.00	17.41	B	C
ATOM	3300	CD2	TYR B 166	4.097	73.825	30.702	1.00	16.97	B	C
ATOM	3301	CE2	TYR B 166	5.001	73.387	31.668	1.00	14.41	B	C
ATOM	3302	CZ	TYR B 166	6.176	74.084	31.868	1.00	15.99	B	C
ATOM	3303	OH	TYR B 166	7.058	73.648	32.827	1.00	15.83	B	O
ATOM	3304	C	TYR B 166	1.576	74.793	27.278	1.00	17.53	B	C
ATOM	3305	O	TYR B 166	0.529	74.344	27.746	1.00	18.77	B	O
ATOM	3306	N	PHE B 167	1.599	75.651	26.260	1.00	18.80	B	N
ATOM	3307	CA	PHE B 167	0.367	76.198	25.668	1.00	19.74	B	C
ATOM	3308	CB	PHE B 167	0.660	77.589	25.115	1.00	18.42	B	C
ATOM	3309	CG	PHE B 167	1.092	78.573	26.163	1.00	17.20	B	C
ATOM	3310	CD1	PHE B 167	1.928	79.627	25.824	1.00	16.80	B	C
ATOM	3311	CD2	PHE B 167	0.635	78.472	27.482	1.00	16.87	B	C
ATOM	3312	CE1	PHE B 167	2.306	80.572	26.770	1.00	17.05	B	C
ATOM	3313	CE2	PHE B 167	1.010	79.419	28.439	1.00	17.71	B	C
ATOM	3314	CZ	PHE B 167	1.851	80.472	28.075	1.00	17.51	B	C
ATOM	3315	C	PHE B 167	-0.367	75.383	24.618	1.00	21.10	B	C
ATOM	3316	O	PHE B 167	-1.597	75.430	24.535	1.00	19.22	B	O

Figure 6GGG

ATOM	3317	N	THR B 168	0.403	74.657	23.812	1.00	23.27	B	N
ATOM	3318	CA	THR B 168	-0.165	73.805	22.765	1.00	26.77	B	C
ATOM	3319	CB	THR B 168	0.865	72.832	22.187	1.00	27.57	B	C
ATOM	3320	OG1	THR B 168	1.911	73.535	21.517	1.00	32.03	B	O
ATOM	3321	CG2	THR B 168	0.186	71.880	21.180	1.00	32.54	B	C
ATOM	3322	C	THR B 168	-1.363	72.944	23.205	1.00	26.77	B	C
ATOM	3323	O	THR B 168	-2.395	72.938	22.572	1.00	28.26	B	O
ATOM	3324	N	PRO B 169	-1.239	72.197	24.326	1.00	26.46	B	N
ATOM	3325	CD	PRO B 169	-0.050	72.083	25.152	1.00	26.67	B	C
ATOM	3326	CA	PRO B 169	-2.291	71.326	24.883	1.00	25.55	B	C
ATOM	3327	CB	PRO B 169	-1.610	70.668	26.066	1.00	26.50	B	C
ATOM	3328	CG	PRO B 169	-0.169	70.666	25.699	1.00	26.43	B	C
ATOM	3329	C	PRO B 169	-3.593	72.077	25.297	1.00	24.82	B	C
ATOM	3330	O	PRO B 169	-4.610	71.418	25.576	1.00	24.34	B	O
ATOM	3331	N	LEU B 170	-3.536	73.405	25.391	1.00	22.80	B	N
ATOM	3332	CA	LEU B 170	-4.729	74.167	25.761	1.00	25.50	B	C
ATOM	3333	CB	LEU B 170	-4.385	75.632	25.964	1.00	23.84	B	C
ATOM	3334	CG	LEU B 170	-3.514	75.982	27.186	1.00	25.53	B	C
ATOM	3335	CD1	LEU B 170	-3.138	77.463	27.146	1.00	26.01	B	C
ATOM	3336	CD2	LEU B 170	-4.242	75.652	28.503	1.00	26.09	B	C
ATOM	3337	C	LEU B 170	-5.772	74.057	24.644	1.00	25.77	B	C
ATOM	3338	O	LEU B 170	-5.436	74.103	23.453	1.00	26.97	B	O
ATOM	3339	N	GLU B 171	-7.033	73.952	25.037	1.00	27.92	B	N
ATOM	3340	CA	GLU B 171	-8.117	73.860	24.078	1.00	30.46	B	C
ATOM	3341	CB	GLU B 171	-9.035	72.693	24.435	1.00	34.23	B	C
ATOM	3342	CG	GLU B 171	-8.408	71.310	24.268	1.00	36.53	B	C
ATOM	3343	CD	GLU B 171	-7.963	71.029	22.844	1.00	38.06	B	C
ATOM	3344	OE1	GLU B 171	-8.773	71.218	21.911	1.00	38.60	B	O
ATOM	3345	OE2	GLU B 171	-6.800	70.614	22.659	1.00	38.27	B	O
ATOM	3346	C	GLU B 171	-8.903	75.155	24.104	1.00	30.56	B	C
ATOM	3347	O	GLU B 171	-9.477	75.560	23.093	1.00	33.13	B	O
ATOM	3348	N	ILE B 172	-8.922	75.801	25.265	1.00	27.64	B	N
ATOM	3349	CA	ILE B 172	-9.627	77.060	25.428	1.00	26.46	B	C
ATOM	3350	CB	ILE B 172	-10.239	77.179	26.838	1.00	26.68	B	C
ATOM	3351	CG2	ILE B 172	-10.916	78.534	26.994	1.00	26.23	B	C
ATOM	3352	CG1	ILE B 172	-11.246	76.050	27.071	1.00	27.08	B	C
ATOM	3353	CD1	ILE B 172	-11.899	76.085	28.443	1.00	27.76	B	C
ATOM	3354	C	ILE B 172	-8.670	78.225	25.218	1.00	26.74	B	C
ATOM	3355	O	ILE B 172	-7.604	78.284	25.833	1.00	24.89	B	O
ATOM	3356	N	LEU B 173	-9.055	79.148	24.343	1.00	25.65	B	N
ATOM	3357	CA	LEU B 173	-8.245	80.328	24.061	1.00	25.77	B	C
ATOM	3358	CB	LEU B 173	-8.564	80.853	22.659	1.00	28.20	B	C
ATOM	3359	CG	LEU B 173	-7.682	81.962	22.082	1.00	29.17	B	C
ATOM	3360	CD1	LEU B 173	-6.227	81.521	22.081	1.00	31.35	B	C
ATOM	3361	CD2	LEU B 173	-8.144	82.281	20.661	1.00	29.98	B	C
ATOM	3362	C	LEU B 173	-8.585	81.387	25.111	1.00	24.69	B	C
ATOM	3363	O	LEU B 173	-9.720	81.852	25.188	1.00	26.80	B	O
ATOM	3364	N	PRO B 174	-7.606	81.780	25.939	1.00	21.86	B	N
ATOM	3365	CD	PRO B 174	-6.227	81.269	26.032	1.00	20.12	B	C
ATOM	3366	CA	PRO B 174	-7.857	82.786	26.973	1.00	21.00	B	C
ATOM	3367	CB	PRO B 174	-6.629	82.663	27.873	1.00	20.86	B	C
ATOM	3368	CG	PRO B 174	-5.553	82.313	26.900	1.00	20.88	B	C
ATOM	3369	C	PRO B 174	-8.058	84.215	26.481	1.00	21.07	B	C
ATOM	3370	O	PRO B 174	-7.442	84.652	25.510	1.00	20.92	B	O
ATOM	3371	N	GLU B 175	-8.941	84.932	27.163	1.00	20.88	B	N
ATOM	3372	CA	GLU B 175	-9.210	86.325	26.849	1.00	20.49	B	C
ATOM	3373	CB	GLU B 175	-10.714	86.599	26.886	1.00	22.18	B	C
ATOM	3374	CG	GLU B 175	-11.414	86.262	25.584	1.00	24.72	B	C

Figure 6HHH

ATOM	3375	CD	GLU	B 175	-12.914	86.445	25.662	1.00	27.87	B	C
ATOM	3376	OE1	GLU	B 175	-13.362	87.355	26.386	1.00	29.73	B	O
ATOM	3377	OE2	GLU	B 175	-13.643	85.686	24.989	1.00	30.38	B	O
ATOM	3378	C	GLU	B 175	-8.492	87.110	27.932	1.00	19.76	B	C
ATOM	3379	O	GLU	B 175	-8.151	88.278	27.760	1.00	19.06	B	O
ATOM	3380	N	VAL	B 176	-8.249	86.429	29.047	1.00	18.72	B	N
ATOM	3381	CA	VAL	B 176	-7.561	87.013	30.187	1.00	18.26	B	C
ATOM	3382	CB	VAL	B 176	-8.542	87.366	31.329	1.00	19.04	B	C
ATOM	3383	CG1	VAL	B 176	-7.792	88.005	32.473	1.00	17.96	B	C
ATOM	3384	CG2	VAL	B 176	-9.627	88.307	30.819	1.00	19.77	B	C
ATOM	3385	C	VAL	B 176	-6.566	85.994	30.728	1.00	18.77	B	C
ATOM	3386	O	VAL	B 176	-6.909	84.830	30.936	1.00	18.44	B	O
ATOM	3387	N	ILE	B 177	-5.337	86.438	30.955	1.00	15.78	B	N
ATOM	3388	CA	ILE	B 177	-4.302	85.564	31.485	1.00	15.67	B	C
ATOM	3389	CB	ILE	B 177	-3.149	85.366	30.479	1.00	16.57	B	C
ATOM	3390	CG2	ILE	B 177	-2.076	84.471	31.092	1.00	15.73	B	C
ATOM	3391	CG1	ILE	B 177	-3.679	84.754	29.184	1.00	17.67	B	C
ATOM	3392	CD1	ILE	B 177	-2.639	84.634	28.094	1.00	16.12	B	C
ATOM	3393	C	ILE	B 177	-3.730	86.191	32.746	1.00	15.83	B	C
ATOM	3394	O	ILE	B 177	-3.319	87.356	32.742	1.00	15.47	B	O
ATOM	3395	N	ILE	B 178	-3.721	85.427	33.832	1.00	15.84	B	N
ATOM	3396	CA	ILE	B 178	-3.178	85.932	35.080	1.00	15.63	B	C
ATOM	3397	CB	ILE	B 178	-3.958	85.402	36.314	1.00	16.93	B	C
ATOM	3398	CG2	ILE	B 178	-3.370	85.986	37.589	1.00	15.87	B	C
ATOM	3399	CG1	ILE	B 178	-5.432	85.807	36.228	1.00	18.02	B	C
ATOM	3400	CD1	ILE	B 178	-6.267	85.341	37.422	1.00	17.46	B	C
ATOM	3401	C	ILE	B 178	-1.724	85.486	35.190	1.00	14.02	B	C
ATOM	3402	O	ILE	B 178	-1.416	84.300	35.089	1.00	13.65	B	O
ATOM	3403	N	LEU	B 179	-0.833	86.449	35.376	1.00	14.12	B	N
ATOM	3404	CA	LEU	B 179	0.589	86.150	35.525	1.00	14.34	B	C
ATOM	3405	CB	LEU	B 179	1.428	87.340	35.053	1.00	15.34	B	C
ATOM	3406	CG	LEU	B 179	1.169	87.783	33.610	1.00	16.04	B	C
ATOM	3407	CD1	LEU	B 179	1.942	89.073	33.332	1.00	18.24	B	C
ATOM	3408	CD2	LEU	B 179	1.574	86.680	32.636	1.00	16.26	B	C
ATOM	3409	C	LEU	B 179	0.783	85.915	37.021	1.00	14.01	B	C
ATOM	3410	O	LEU	B 179	1.391	86.727	37.719	1.00	13.42	B	O
ATOM	3411	N	GLY	B 180	0.252	84.790	37.493	1.00	13.50	B	N
ATOM	3412	CA	GLY	B 180	0.310	84.448	38.906	1.00	13.79	B	C
ATOM	3413	C	GLY	B 180	1.632	83.927	39.417	1.00	12.30	B	C
ATOM	3414	O	GLY	B 180	1.681	82.902	40.093	1.00	14.02	B	O
ATOM	3415	N	CYS	B 181	2.702	84.647	39.093	1.00	13.12	B	N
ATOM	3416	CA	CYS	B 181	4.048	84.295	39.518	1.00	11.26	B	C
ATOM	3417	CB	CYS	B 181	4.591	83.150	38.667	1.00	11.52	B	C
ATOM	3418	SG	CYS	B 181	6.279	82.671	39.091	1.00	14.29	B	S
ATOM	3419	C	CYS	B 181	4.927	85.532	39.348	1.00	11.67	B	C
ATOM	3420	O	CYS	B 181	4.837	86.226	38.336	1.00	10.15	B	O
ATOM	3421	N	THR	B 182	5.770	85.796	40.342	1.00	10.95	B	N
ATOM	3422	CA	THR	B 182	6.671	86.950	40.329	1.00	11.68	B	C
ATOM	3423	CB	THR	B 182	7.654	86.902	41.517	1.00	12.29	B	C
ATOM	3424	OG1	THR	B 182	8.306	85.623	41.546	1.00	8.82	B	O
ATOM	3425	CG2	THR	B 182	6.918	87.133	42.832	1.00	13.05	B	C
ATOM	3426	C	THR	B 182	7.511	87.085	39.068	1.00	12.00	B	C
ATOM	3427	O	THR	B 182	7.775	88.190	38.604	1.00	11.14	B	O
ATOM	3428	N	HIS	B 183	7.927	85.953	38.516	1.00	11.51	B	N
ATOM	3429	CA	HIS	B 183	8.782	85.934	37.333	1.00	12.53	B	C
ATOM	3430	CB	HIS	B 183	9.490	84.577	37.250	1.00	12.11	B	C
ATOM	3431	CG	HIS	B 183	10.413	84.301	38.396	1.00	12.62	B	C
ATOM	3432	CD2	HIS	B 183	11.662	83.774	38.425	1.00	14.37	B	C

Figure 6III

ATOM	3433	ND1 HIS B 183	10.074	84.558	39.708	1.00	12.87	B	N
ATOM	3434	CE1 HIS B 183	11.076	84.206	40.495	1.00	11.92	B	C
ATOM	3435	NE2 HIS B 183	12.051	83.728	39.741	1.00	12.64	B	N
ATOM	3436	C HIS B 183	8.113	86.202	35.990	1.00	13.70	B	C
ATOM	3437	O HIS B 183	8.735	86.757	35.082	1.00	14.63	B	O
ATOM	3438	N PHE B 184	6.846	85.822	35.866	1.00	14.67	B	N
ATOM	3439	CA PHE B 184	6.134	85.945	34.595	1.00	13.80	B	C
ATOM	3440	CB PHE B 184	4.751	85.298	34.731	1.00	14.23	B	C
ATOM	3441	CG PHE B 184	4.809	83.829	35.102	1.00	13.65	B	C
ATOM	3442	CD1 PHE B 184	3.646	83.084	35.240	1.00	16.74	B	C
ATOM	3443	CD2 PHE B 184	6.035	83.207	35.355	1.00	14.92	B	C
ATOM	3444	CE1 PHE B 184	3.698	81.743	35.631	1.00	13.35	B	C
ATOM	3445	CE2 PHE B 184	6.097	81.866	35.746	1.00	14.40	B	C
ATOM	3446	CZ PHE B 184	4.923	81.136	35.884	1.00	13.35	B	C
ATOM	3447	C PHE B 184	6.049	87.314	33.921	1.00	13.82	B	C
ATOM	3448	O PHE B 184	5.991	87.391	32.691	1.00	13.30	B	O
ATOM	3449	N PRO B 185	6.032	88.409	34.697	1.00	13.55	B	N
ATOM	3450	CD PRO B 185	5.786	88.577	36.143	1.00	14.61	B	C
ATOM	3451	CA PRO B 185	5.966	89.701	34.008	1.00	14.00	B	C
ATOM	3452	CB PRO B 185	5.964	90.702	35.158	1.00	15.55	B	C
ATOM	3453	CG PRO B 185	5.186	89.971	36.210	1.00	16.68	B	C
ATOM	3454	C PRO B 185	7.158	89.907	33.063	1.00	14.41	B	C
ATOM	3455	O PRO B 185	7.057	90.640	32.076	1.00	14.66	B	O
ATOM	3456	N LEU B 186	8.285	89.257	33.355	1.00	13.60	B	N
ATOM	3457	CA LEU B 186	9.462	89.410	32.503	1.00	14.78	B	C
ATOM	3458	CB LEU B 186	10.707	88.844	33.185	1.00	16.45	B	C
ATOM	3459	CG LEU B 186	11.268	89.716	34.312	1.00	17.76	B	C
ATOM	3460	CD1 LEU B 186	12.601	89.149	34.788	1.00	18.57	B	C
ATOM	3461	CD2 LEU B 186	11.454	91.145	33.800	1.00	19.96	B	C
ATOM	3462	C LEU B 186	9.299	88.796	31.115	1.00	14.26	B	C
ATOM	3463	O LEU B 186	10.105	89.060	30.219	1.00	13.67	B	O
ATOM	3464	N ILE B 187	8.271	87.973	30.933	1.00	13.72	B	N
ATOM	3465	CA ILE B 187	8.007	87.391	29.616	1.00	14.52	B	C
ATOM	3466	CB ILE B 187	8.252	85.852	29.567	1.00	16.13	B	C
ATOM	3467	CG2 ILE B 187	9.734	85.563	29.730	1.00	15.11	B	C
ATOM	3468	CG1 ILE B 187	7.418	85.134	30.630	1.00	14.95	B	C
ATOM	3469	CD1 ILE B 187	7.386	83.616	30.452	1.00	18.91	B	C
ATOM	3470	C ILE B 187	6.559	87.681	29.216	1.00	15.97	B	C
ATOM	3471	O ILE B 187	5.970	86.973	28.399	1.00	14.41	B	O
ATOM	3472	N ALA B 188	6.003	88.742	29.790	1.00	14.30	B	N
ATOM	3473	CA ALA B 188	4.623	89.138	29.511	1.00	16.72	B	C
ATOM	3474	CB ALA B 188	4.261	90.381	30.318	1.00	17.73	B	C
ATOM	3475	C ALA B 188	4.386	89.386	28.021	1.00	17.75	B	C
ATOM	3476	O ALA B 188	3.473	88.806	27.437	1.00	15.55	B	O
ATOM	3477	N GLN B 189	5.208	90.232	27.404	1.00	18.64	B	N
ATOM	3478	CA GLN B 189	5.045	90.521	25.979	1.00	20.60	B	C
ATOM	3479	CB GLN B 189	5.977	91.668	25.553	1.00	24.25	B	C
ATOM	3480	CG GLN B 189	7.448	91.297	25.369	1.00	34.75	B	C
ATOM	3481	CD GLN B 189	8.385	92.508	25.450	1.00	39.99	B	C
ATOM	3482	OE1 GLN B 189	7.963	93.653	25.263	1.00	43.74	B	O
ATOM	3483	NE2 GLN B 189	9.663	92.254	25.720	1.00	40.19	B	N
ATOM	3484	C GLN B 189	5.279	89.273	25.111	1.00	17.97	B	C
ATOM	3485	O GLN B 189	4.729	89.163	24.015	1.00	14.32	B	O
ATOM	3486	N LYS B 190	6.078	88.329	25.606	1.00	17.40	B	N
ATOM	3487	CA LYS B 190	6.341	87.097	24.859	1.00	16.80	B	C
ATOM	3488	CB LYS B 190	7.567	86.374	25.421	1.00	18.22	B	C
ATOM	3489	CG LYS B 190	8.878	87.117	25.218	1.00	21.88	B	C
ATOM	3490	CD LYS B 190	9.211	87.269	23.740	1.00	25.45	B	C

Figure 6JJJ

ATOM	3491	CE	LYS	B	190	10.416	88.179	23.543	1.00	29.36	B	C
ATOM	3492	NZ	LYS	B	190	10.790	88.298	22.110	1.00	29.28	B	N
ATOM	3493	C	LYS	B	190	5.123	86.176	24.920	1.00	16.76	B	C
ATOM	3494	O	LYS	B	190	4.775	85.521	23.934	1.00	15.72	B	O
ATOM	3495	N	ILE	B	191	4.484	86.118	26.085	1.00	17.36	B	N
ATOM	3496	CA	ILE	B	191	3.293	85.293	26.250	1.00	16.65	B	C
ATOM	3497	CB	ILE	B	191	2.835	85.283	27.722	1.00	16.29	B	C
ATOM	3498	CG2	ILE	B	191	1.429	84.706	27.837	1.00	15.90	B	C
ATOM	3499	CG1	ILE	B	191	3.827	84.472	28.561	1.00	14.41	B	C
ATOM	3500	CD1	ILE	B	191	3.575	84.556	30.065	1.00	15.15	B	C
ATOM	3501	C	ILE	B	191	2.206	85.902	25.371	1.00	17.73	B	C
ATOM	3502	O	ILE	B	191	1.431	85.201	24.730	1.00	17.39	B	O
ATOM	3503	N	GLU	B	192	2.174	87.227	25.343	1.00	19.90	B	N
ATOM	3504	CA	GLU	B	192	1.206	87.955	24.545	1.00	20.35	B	C
ATOM	3505	CB	GLU	B	192	1.368	89.452	24.811	1.00	22.52	B	C
ATOM	3506	CG	GLU	B	192	0.186	90.301	24.426	1.00	31.49	B	C
ATOM	3507	CD	GLU	B	192	0.310	91.705	24.981	1.00	36.51	B	C
ATOM	3508	OE1	GLU	B	192	0.342	91.845	26.223	1.00	39.33	B	O
ATOM	3509	OE2	GLU	B	192	0.384	92.660	24.179	1.00	38.77	B	O
ATOM	3510	C	GLU	B	192	1.468	87.638	23.077	1.00	18.85	B	C
ATOM	3511	O	GLU	B	192	0.553	87.274	22.327	1.00	18.00	B	O
ATOM	3512	N	GLY	B	193	2.733	87.764	22.685	1.00	19.26	B	N
ATOM	3513	CA	GLY	B	193	3.134	87.497	21.319	1.00	16.37	B	C
ATOM	3514	C	GLY	B	193	2.843	86.078	20.880	1.00	17.40	B	C
ATOM	3515	O	GLY	B	193	2.580	85.832	19.700	1.00	19.53	B	O
ATOM	3516	N	TYR	B	194	2.892	85.138	21.819	1.00	15.60	B	N
ATOM	3517	CA	TYR	B	194	2.621	83.740	21.494	1.00	16.39	B	C
ATOM	3518	CB	TYR	B	194	2.829	82.845	22.715	1.00	16.47	B	C
ATOM	3519	CG	TYR	B	194	2.502	81.386	22.452	1.00	15.75	B	C
ATOM	3520	CD1	TYR	B	194	3.470	80.515	21.964	1.00	17.79	B	C
ATOM	3521	CE1	TYR	B	194	3.171	79.178	21.698	1.00	18.26	B	C
ATOM	3522	CD2	TYR	B	194	1.216	80.887	22.669	1.00	15.15	B	C
ATOM	3523	CE2	TYR	B	194	0.904	79.551	22.403	1.00	16.44	B	C
ATOM	3524	CZ	TYR	B	194	1.890	78.703	21.920	1.00	15.60	B	C
ATOM	3525	OH	TYR	B	194	1.614	77.379	21.671	1.00	17.72	B	O
ATOM	3526	C	TYR	B	194	1.189	83.551	21.003	1.00	16.01	B	C
ATOM	3527	O	TYR	B	194	0.966	82.985	19.940	1.00	17.33	B	O
ATOM	3528	N	PHE	B	195	0.218	84.011	21.785	1.00	17.37	B	N
ATOM	3529	CA	PHE	B	195	-1.177	83.851	21.390	1.00	19.84	B	C
ATOM	3530	CB	PHE	B	195	-2.108	84.174	22.563	1.00	20.48	B	C
ATOM	3531	CG	PHE	B	195	-2.057	83.146	23.659	1.00	21.18	B	C
ATOM	3532	CD1	PHE	B	195	-1.166	83.281	24.720	1.00	20.24	B	C
ATOM	3533	CD2	PHE	B	195	-2.847	82.002	23.590	1.00	20.40	B	C
ATOM	3534	CE1	PHE	B	195	-1.061	82.289	25.692	1.00	18.52	B	C
ATOM	3535	CE2	PHE	B	195	-2.748	81.004	24.558	1.00	21.83	B	C
ATOM	3536	CZ	PHE	B	195	-1.853	81.149	25.609	1.00	18.80	B	C
ATOM	3537	C	PHE	B	195	-1.549	84.675	20.168	1.00	21.22	B	C
ATOM	3538	O	PHE	B	195	-2.381	84.260	19.364	1.00	23.42	B	O
ATOM	3539	N	MET	B	196	-0.920	85.835	20.018	1.00	20.91	B	N
ATOM	3540	CA	MET	B	196	-1.191	86.691	18.874	1.00	22.63	B	C
ATOM	3541	CB	MET	B	196	-0.632	88.096	19.110	1.00	21.19	B	C
ATOM	3542	CG	MET	B	196	-1.454	88.939	20.066	1.00	21.47	B	C
ATOM	3543	SD	MET	B	196	-3.106	89.333	19.420	1.00	22.89	B	S
ATOM	3544	CE	MET	B	196	-2.734	90.738	18.369	1.00	25.90	B	C
ATOM	3545	C	MET	B	196	-0.574	86.098	17.616	1.00	22.76	B	C
ATOM	3546	O	MET	B	196	-1.034	86.365	16.510	1.00	22.32	B	O
ATOM	3547	N	GLY	B	197	0.462	85.284	17.788	1.00	23.35	B	N
ATOM	3548	CA	GLY	B	197	1.117	84.682	16.644	1.00	23.78	B	C

Figure 6KKK

ATOM	3549	C	GLY B 197	0.612	83.294	16.308	1.00	26.07	B	C
ATOM	3550	O	GLY B 197	0.757	82.836	15.178	1.00	27.06	B	O
ATOM	3551	N	HIS B 198	0.011	82.618	17.280	1.00	24.62	B	N
ATOM	3552	CA	HIS B 198	-0.489	81.270	17.052	1.00	25.26	B	C
ATOM	3553	CB	HIS B 198	-0.143	80.393	18.250	1.00	24.79	B	C
ATOM	3554	CG	HIS B 198	1.318	80.087	18.358	1.00	27.65	B	C
ATOM	3555	CD2	HIS B 198	2.369	80.867	18.706	1.00	27.06	B	C
ATOM	3556	ND1	HIS B 198	1.847	78.858	18.026	1.00	29.54	B	N
ATOM	3557	CE1	HIS B 198	3.161	78.896	18.162	1.00	28.74	B	C
ATOM	3558	NE2	HIS B 198	3.503	80.104	18.572	1.00	27.31	B	N
ATOM	3559	C	HIS B 198	-1.982	81.189	16.742	1.00	25.16	B	C
ATOM	3560	O	HIS B 198	-2.470	80.160	16.274	1.00	25.84	B	O
ATOM	3561	N	PHE B 199	-2.701	82.274	17.002	1.00	23.99	B	N
ATOM	3562	CA	PHE B 199	-4.134	82.323	16.731	1.00	25.24	B	C
ATOM	3563	CB	PHE B 199	-4.939	82.150	18.021	1.00	25.35	B	C
ATOM	3564	CG	PHE B 199	-4.641	80.875	18.754	1.00	25.83	B	C
ATOM	3565	CD1	PHE B 199	-3.499	80.763	19.543	1.00	25.81	B	C
ATOM	3566	CD2	PHE B 199	-5.486	79.776	18.634	1.00	26.63	B	C
ATOM	3567	CE1	PHE B 199	-3.202	79.571	20.204	1.00	25.90	B	C
ATOM	3568	CE2	PHE B 199	-5.200	78.574	19.292	1.00	27.07	B	C
ATOM	3569	CZ	PHE B 199	-4.053	78.476	20.078	1.00	25.59	B	C
ATOM	3570	C	PHE B 199	-4.488	83.658	16.085	1.00	25.45	B	C
ATOM	3571	O	PHE B 199	-3.741	84.633	16.202	1.00	26.05	B	O
ATOM	3572	N	ALA B 200	-5.624	83.698	15.397	1.00	25.36	B	N
ATOM	3573	CA	ALA B 200	-6.066	84.926	14.744	1.00	26.49	B	C
ATOM	3574	CB	ALA B 200	-6.945	84.592	13.543	1.00	27.04	B	C
ATOM	3575	C	ALA B 200	-6.842	85.770	15.748	1.00	25.75	B	C
ATOM	3576	O	ALA B 200	-8.035	85.555	15.951	1.00	27.07	B	O
ATOM	3577	N	LEU B 201	-6.162	86.723	16.380	1.00	26.03	B	N
ATOM	3578	CA	LEU B 201	-6.801	87.588	17.371	1.00	25.45	B	C
ATOM	3579	CB	LEU B 201	-6.206	87.345	18.762	1.00	26.37	B	C
ATOM	3580	CG	LEU B 201	-6.409	85.971	19.404	1.00	27.87	B	C
ATOM	3581	CD1	LEU B 201	-5.727	85.944	20.768	1.00	27.55	B	C
ATOM	3582	CD2	LEU B 201	-7.895	85.681	19.539	1.00	28.11	B	C
ATOM	3583	C	LEU B 201	-6.668	89.069	17.041	1.00	24.86	B	C
ATOM	3584	O	LEU B 201	-5.571	89.565	16.801	1.00	25.77	B	O
ATOM	3585	N	PRO B 202	-7.792	89.795	17.036	1.00	25.07	B	N
ATOM	3586	CD	PRO B 202	-9.159	89.302	17.284	1.00	27.27	B	C
ATOM	3587	CA	PRO B 202	-7.801	91.229	16.739	1.00	27.30	B	C
ATOM	3588	CB	PRO B 202	-9.286	91.530	16.571	1.00	26.61	B	C
ATOM	3589	CG	PRO B 202	-9.919	90.581	17.541	1.00	28.74	B	C
ATOM	3590	C	PRO B 202	-7.162	92.024	17.878	1.00	28.85	B	C
ATOM	3591	O	PRO B 202	-6.625	93.111	17.676	1.00	31.54	B	O
ATOM	3592	N	THR B 203	-7.228	91.467	19.080	1.00	29.83	B	N
ATOM	3593	CA	THR B 203	-6.649	92.104	20.253	1.00	30.73	B	C
ATOM	3594	CB	THR B 203	-7.717	92.910	21.029	1.00	32.69	B	C
ATOM	3595	OG1	THR B 203	-7.113	93.535	22.168	1.00	38.76	B	O
ATOM	3596	CG2	THR B 203	-8.854	92.009	21.478	1.00	34.49	B	C
ATOM	3597	C	THR B 203	-6.057	91.009	21.142	1.00	30.11	B	C
ATOM	3598	O	THR B 203	-6.632	89.929	21.281	1.00	29.77	B	O
ATOM	3599	N	PRO B 204	-4.888	91.271	21.746	1.00	28.28	B	N
ATOM	3600	CD	PRO B 204	-4.105	92.519	21.714	1.00	29.99	B	C
ATOM	3601	CA	PRO B 204	-4.249	90.278	22.608	1.00	25.72	B	C
ATOM	3602	CB	PRO B 204	-2.871	90.878	22.851	1.00	27.64	B	C
ATOM	3603	CG	PRO B 204	-3.170	92.344	22.895	1.00	30.54	B	C
ATOM	3604	C	PRO B 204	-5.007	90.034	23.906	1.00	22.99	B	C
ATOM	3605	O	PRO B 204	-5.829	90.847	24.322	1.00	21.45	B	O
ATOM	3606	N	PRO B 205	-4.754	88.888	24.550	1.00	23.17	B	N

Figure 6LL

ATOM	3607	CD	PRO B 205	-3.967	87.734	24.079	1.00	22.14	B	C
ATOM	3608	CA	PRO B 205	-5.435	88.579	25.812	1.00	21.71	B	C
ATOM	3609	CB	PRO B 205	-4.930	87.177	26.145	1.00	20.02	B	C
ATOM	3610	CG	PRO B 205	-4.640	86.587	24.791	1.00	24.28	B	C
ATOM	3611	C	PRO B 205	-5.013	89.592	26.870	1.00	20.42	B	C
ATOM	3612	O	PRO B 205	-3.884	90.081	26.855	1.00	20.68	B	O
ATOM	3613	N	LEU B 206	-5.920	89.912	27.781	1.00	19.56	B	N
ATOM	3614	CA	LEU B 206	-5.614	90.852	28.844	1.00	18.19	B	C
ATOM	3615	CB	LEU B 206	-6.903	91.341	29.506	1.00	19.98	B	C
ATOM	3616	CG	LEU B 206	-6.733	92.187	30.772	1.00	20.16	B	C
ATOM	3617	CD1	LEU B 206	-6.025	93.490	30.435	1.00	20.32	B	C
ATOM	3618	CD2	LEU B 206	-8.097	92.461	31.383	1.00	21.77	B	C
ATOM	3619	C	LEU B 206	-4.748	90.152	29.887	1.00	19.09	B	C
ATOM	3620	O	LEU B 206	-5.155	89.137	30.460	1.00	16.01	B	O
ATOM	3621	N	LEU B 207	-3.554	90.682	30.130	1.00	17.87	B	N
ATOM	3622	CA	LEU B 207	-2.673	90.086	31.128	1.00	19.96	B	C
ATOM	3623	CB	LEU B 207	-1.204	90.137	30.683	1.00	20.75	B	C
ATOM	3624	CG	LEU B 207	-0.775	89.375	29.427	1.00	23.64	B	C
ATOM	3625	CD1	LEU B 207	0.754	89.247	29.409	1.00	24.69	B	C
ATOM	3626	CD2	LEU B 207	-1.402	88.003	29.411	1.00	25.49	B	C
ATOM	3627	C	LEU B 207	-2.822	90.826	32.450	1.00	18.55	B	C
ATOM	3628	O	LEU B 207	-2.846	92.056	32.489	1.00	19.17	B	O
ATOM	3629	N	ILE B 208	-2.925	90.067	33.534	1.00	17.96	B	N
ATOM	3630	CA	ILE B 208	-3.064	90.645	34.860	1.00	17.50	B	C
ATOM	3631	CB	ILE B 208	-4.118	89.878	35.685	1.00	17.43	B	C
ATOM	3632	CG2	ILE B 208	-4.243	90.491	37.077	1.00	18.18	B	C
ATOM	3633	CG1	ILE B 208	-5.459	89.892	34.943	1.00	18.45	B	C
ATOM	3634	CD1	ILE B 208	-6.012	91.289	34.699	1.00	14.50	B	C
ATOM	3635	C	ILE B 208	-1.719	90.585	35.575	1.00	16.82	B	C
ATOM	3636	O	ILE B 208	-1.164	89.508	35.780	1.00	15.89	B	O
ATOM	3637	N	HIS B 209	-1.213	91.756	35.950	1.00	17.14	B	N
ATOM	3638	CA	HIS B 209	0.074	91.899	36.632	1.00	18.16	B	C
ATOM	3639	CB	HIS B 209	0.745	93.175	36.106	1.00	18.91	B	C
ATOM	3640	CG	HIS B 209	2.193	93.306	36.457	1.00	20.99	B	C
ATOM	3641	CD2	HIS B 209	3.306	93.162	35.699	1.00	19.36	B	C
ATOM	3642	ND1	HIS B 209	2.629	93.657	37.716	1.00	22.36	B	N
ATOM	3643	CE1	HIS B 209	3.949	93.725	37.718	1.00	21.52	B	C
ATOM	3644	NE2	HIS B 209	4.384	93.429	36.506	1.00	15.94	B	N
ATOM	3645	C	HIS B 209	-0.149	91.980	38.150	1.00	17.31	B	C
ATOM	3646	O	HIS B 209	-0.909	92.826	38.621	1.00	17.80	B	O
ATOM	3647	N	SER B 210	0.513	91.104	38.908	1.00	15.90	B	N
ATOM	3648	CA	SER B 210	0.361	91.070	40.366	1.00	18.09	B	C
ATOM	3649	CB	SER B 210	1.187	89.931	40.975	1.00	15.92	B	C
ATOM	3650	OG	SER B 210	0.783	88.671	40.475	1.00	17.30	B	O
ATOM	3651	C	SER B 210	0.762	92.368	41.048	1.00	18.89	B	C
ATOM	3652	O	SER B 210	0.146	92.783	42.036	1.00	18.64	B	O
ATOM	3653	N	GLY B 211	1.806	92.999	40.527	1.00	18.49	B	N
ATOM	3654	CA	GLY B 211	2.276	94.241	41.105	1.00	17.93	B	C
ATOM	3655	C	GLY B 211	1.300	95.384	40.929	1.00	18.65	B	C
ATOM	3656	O	GLY B 211	0.988	96.088	41.888	1.00	18.89	B	O
ATOM	3657	N	ASP B 212	0.821	95.585	39.708	1.00	17.89	B	N
ATOM	3658	CA	ASP B 212	-0.122	96.666	39.454	1.00	19.78	B	C
ATOM	3659	CB	ASP B 212	-0.441	96.776	37.959	1.00	21.36	B	C
ATOM	3660	CG	ASP B 212	0.789	97.074	37.119	1.00	25.55	B	C
ATOM	3661	OD1	ASP B 212	1.588	97.954	37.509	1.00	24.93	B	O
ATOM	3662	OD2	ASP B 212	0.948	96.432	36.059	1.00	27.71	B	O
ATOM	3663	C	ASP B 212	-1.414	96.441	40.227	1.00	18.76	B	C
ATOM	3664	O	ASP B 212	-2.025	97.389	40.712	1.00	19.27	B	O

Figure 6MMM

ATOM	3665	N	ALA B 213	-1.825	95.182	40.344	1.00	19.86	B	N
ATOM	3666	CA	ALA B 213	-3.055	94.847	41.054	1.00	17.54	B	C
ATOM	3667	CB	ALA B 213	-3.378	93.372	40.876	1.00	17.05	B	C
ATOM	3668	C	ALA B 213	-2.959	95.183	42.539	1.00	19.06	B	C
ATOM	3669	O	ALA B 213	-3.901	95.725	43.120	1.00	16.90	B	O
ATOM	3670	N	ILE B 214	-1.823	94.876	43.158	1.00	15.97	B	N
ATOM	3671	CA	ILE B 214	-1.678	95.162	44.577	1.00	16.41	B	C
ATOM	3672	CB	ILE B 214	-0.503	94.357	45.206	1.00	17.51	B	C
ATOM	3673	CG2	ILE B 214	0.841	94.960	44.809	1.00	16.99	B	C
ATOM	3674	CG1	ILE B 214	-0.639	94.359	46.733	1.00	17.48	B	C
ATOM	3675	CD1	ILE B 214	0.283	93.366	47.436	1.00	20.67	B	C
ATOM	3676	C	ILE B 214	-1.516	96.656	44.864	1.00	16.49	B	C
ATOM	3677	O	ILE B 214	-1.933	97.133	45.917	1.00	16.10	B	O
ATOM	3678	N	VAL B 215	-0.927	97.403	43.933	1.00	16.36	B	N
ATOM	3679	CA	VAL B 215	-0.772	98.841	44.139	1.00	17.16	B	C
ATOM	3680	CB	VAL B 215	-0.016	99.509	42.964	1.00	19.48	B	C
ATOM	3681	CG1	VAL B 215	-0.179	101.017	43.027	1.00	17.77	B	C
ATOM	3682	CG2	VAL B 215	1.470	99.147	43.022	1.00	17.10	B	C
ATOM	3683	C	VAL B 215	-2.161	99.471	44.259	1.00	18.05	B	C
ATOM	3684	O	VAL B 215	-2.417	100.282	45.153	1.00	17.39	B	O
ATOM	3685	N	GLU B 216	-3.054	99.089	43.354	1.00	19.67	B	N
ATOM	3686	CA	GLU B 216	-4.411	99.617	43.357	1.00	21.54	B	C
ATOM	3687	CB	GLU B 216	-5.188	99.059	42.166	1.00	23.84	B	C
ATOM	3688	CG	GLU B 216	-4.815	99.727	40.853	1.00	26.87	B	C
ATOM	3689	CD	GLU B 216	-5.388	99.014	39.648	1.00	30.91	B	C
ATOM	3690	OE1	GLU B 216	-5.399	99.623	38.558	1.00	34.30	B	O
ATOM	3691	OE2	GLU B 216	-5.815	97.845	39.785	1.00	31.99	B	O
ATOM	3692	C	GLU B 216	-5.126	99.293	44.657	1.00	20.92	B	C
ATOM	3693	O	GLU B 216	-5.815	100.141	45.223	1.00	19.64	B	O
ATOM	3694	N	TYR B 217	-4.955	98.065	45.135	1.00	21.71	B	N
ATOM	3695	CA	TYR B 217	-5.583	97.649	46.386	1.00	21.99	B	C
ATOM	3696	CB	TYR B 217	-5.307	96.167	46.658	1.00	22.18	B	C
ATOM	3697	CG	TYR B 217	-5.831	95.693	47.995	1.00	20.53	B	C
ATOM	3698	CD1	TYR B 217	-7.199	95.534	48.213	1.00	22.61	B	C
ATOM	3699	CE1	TYR B 217	-7.692	95.113	49.456	1.00	20.09	B	C
ATOM	3700	CD2	TYR B 217	-4.961	95.422	49.051	1.00	19.57	B	C
ATOM	3701	CE2	TYR B 217	-5.440	95.002	50.293	1.00	19.82	B	C
ATOM	3702	CZ	TYR B 217	-6.807	94.849	50.488	1.00	20.38	B	C
ATOM	3703	OH	TYR B 217	-7.288	94.422	51.709	1.00	19.08	B	O
ATOM	3704	C	TYR B 217	-5.056	98.473	47.558	1.00	22.00	B	C
ATOM	3705	O	TYR B 217	-5.832	98.992	48.362	1.00	21.85	B	O
ATOM	3706	N	LEU B 218	-3.734	98.591	47.654	1.00	19.08	B	N
ATOM	3707	CA	LEU B 218	-3.113	99.341	48.740	1.00	19.40	B	C
ATOM	3708	CB	LEU B 218	-1.585	99.279	48.615	1.00	17.82	B	C
ATOM	3709	CG	LEU B 218	-0.941	97.888	48.742	1.00	18.28	B	C
ATOM	3710	CD1	LEU B 218	0.541	97.968	48.389	1.00	15.96	B	C
ATOM	3711	CD2	LEU B 218	-1.128	97.353	50.155	1.00	16.26	B	C
ATOM	3712	C	LEU B 218	-3.582	100.798	48.791	1.00	21.94	B	C
ATOM	3713	O	LEU B 218	-3.841	101.335	49.866	1.00	18.51	B	O
ATOM	3714	N	GLN B 219	-3.691	101.433	47.629	1.00	22.92	B	N
ATOM	3715	CA	GLN B 219	-4.139	102.822	47.562	1.00	24.80	B	C
ATOM	3716	CB	GLN B 219	-4.004	103.353	46.129	1.00	26.04	B	C
ATOM	3717	CG	GLN B 219	-2.577	103.325	45.592	1.00	28.25	B	C
ATOM	3718	CD	GLN B 219	-2.470	103.820	44.156	1.00	28.07	B	C
ATOM	3719	OE1	GLN B 219	-3.166	103.334	43.262	1.00	25.98	B	O
ATOM	3720	NE2	GLN B 219	-1.588	104.790	43.932	1.00	30.48	B	N
ATOM	3721	C	GLN B 219	-5.596	102.914	48.005	1.00	24.27	B	C
ATOM	3722	O	GLN B 219	-5.995	103.859	48.683	1.00	25.16	B	O

Figure 6NNN

ATOM	3723	N	GLN B 220	-6.375	101.912	47.620	1.00	24.30	B	N
ATOM	3724	CA	GLN B 220	-7.792	101.838	47.943	1.00	28.00	B	C
ATOM	3725	CB	GLN B 220	-8.410	100.663	47.184	1.00	31.02	B	C
ATOM	3726	CG	GLN B 220	-9.920	100.674	47.077	1.00	39.36	B	C
ATOM	3727	CD	GLN B 220	-10.411	101.639	46.020	1.00	44.14	B	C
ATOM	3728	OE1	GLN B 220	-10.260	102.854	46.154	1.00	47.44	B	O
ATOM	3729	NE2	GLN B 220	-10.995	101.101	44.954	1.00	47.51	B	N
ATOM	3730	C	GLN B 220	-8.013	101.635	49.444	1.00	29.46	B	C
ATOM	3731	O	GLN B 220	-8.553	102.499	50.137	1.00	28.33	B	O
ATOM	3732	N	LYS B 221	-7.570	100.477	49.927	1.00	29.84	B	N
ATOM	3733	CA	LYS B 221	-7.720	100.075	51.321	1.00	28.05	B	C
ATOM	3734	CB	LYS B 221	-7.249	98.626	51.477	1.00	29.20	B	C
ATOM	3735	CG	LYS B 221	-8.124	97.761	52.381	1.00	33.06	B	C
ATOM	3736	CD	LYS B 221	-8.114	98.242	53.817	1.00	34.46	B	C
ATOM	3737	CE	LYS B 221	-8.796	97.239	54.738	1.00	34.63	B	C
ATOM	3738	NZ	LYS B 221	-8.003	95.993	54.896	1.00	31.31	B	N
ATOM	3739	C	LYS B 221	-7.012	100.953	52.345	1.00	27.08	B	C
ATOM	3740	O	LYS B 221	-7.556	101.230	53.416	1.00	27.24	B	O
ATOM	3741	N	TYR B 222	-5.804	101.399	52.029	1.00	25.82	B	N
ATOM	3742	CA	TYR B 222	-5.052	102.212	52.973	1.00	27.04	B	C
ATOM	3743	CB	TYR B 222	-3.658	101.616	53.147	1.00	22.44	B	C
ATOM	3744	CG	TYR B 222	-3.708	100.166	53.576	1.00	22.86	B	C
ATOM	3745	CD1	TYR B 222	-4.156	99.815	54.854	1.00	19.32	B	C
ATOM	3746	CE1	TYR B 222	-4.258	98.484	55.243	1.00	19.44	B	C
ATOM	3747	CD2	TYR B 222	-3.357	99.134	52.694	1.00	20.72	B	C
ATOM	3748	CE2	TYR B 222	-3.456	97.792	53.078	1.00	19.21	B	C
ATOM	3749	CZ	TYR B 222	-3.909	97.482	54.351	1.00	19.82	B	C
ATOM	3750	OH	TYR B 222	-4.027	96.167	54.725	1.00	19.05	B	O
ATOM	3751	C	TYR B 222	-4.968	103.667	52.539	1.00	29.48	B	C
ATOM	3752	O	TYR B 222	-4.096	104.405	52.986	1.00	31.72	B	O
ATOM	3753	N	ALA B 223	-5.900	104.089	51.696	1.00	32.87	B	N
ATOM	3754	CA	ALA B 223	-5.895	105.466	51.201	1.00	36.60	B	C
ATOM	3755	CB	ALA B 223	-6.672	106.421	52.148	1.00	37.41	B	C
ATOM	3756	C	ALA B 223	-4.442	105.909	51.088	1.00	38.06	B	C
ATOM	3757	O	ALA B 223	-4.060	106.977	51.560	1.00	38.78	B	O
ATOM	3758	N	LEU B 224	-3.627	105.088	50.441	1.00	38.57	B	N
ATOM	3759	CA	LEU B 224	-2.215	105.403	50.264	1.00	38.61	B	C
ATOM	3760	CB	LEU B 224	-1.402	104.097	50.136	1.00	39.37	B	C
ATOM	3761	CG	LEU B 224	-1.183	103.355	51.466	1.00	39.96	B	C
ATOM	3762	CD1	LEU B 224	-0.057	102.350	51.297	1.00	39.16	B	C
ATOM	3763	CD2	LEU B 224	-0.818	104.336	52.585	1.00	41.79	B	C
ATOM	3764	C	LEU B 224	-1.949	106.306	49.064	1.00	38.91	B	C
ATOM	3765	O	LEU B 224	-2.714	106.190	48.105	1.00	38.22	B	O
ATOM	3766	OXT	LEU B 224	-0.969	107.085	49.068	1.00	39.30	B	O
ATOM	3767	CB	PRO B 232	11.684	106.007	48.754	1.00	35.25	B	C
ATOM	3768	CG	PRO B 232	11.385	107.285	47.963	1.00	36.48	B	C
ATOM	3769	C	PRO B 232	13.583	105.559	50.328	1.00	32.21	B	C
ATOM	3770	O	PRO B 232	14.407	105.139	49.517	1.00	33.63	B	O
ATOM	3771	N	PRO B 232	13.132	107.820	49.423	1.00	34.70	B	N
ATOM	3772	CD	PRO B 232	12.673	108.108	48.053	1.00	35.80	B	C
ATOM	3773	CA	PRO B 232	12.514	106.559	49.903	1.00	34.68	B	C
ATOM	3774	N	LYS B 233	13.566	105.183	51.602	1.00	30.94	B	N
ATOM	3775	CA	LYS B 233	14.542	104.237	52.126	1.00	27.68	B	C
ATOM	3776	CB	LYS B 233	14.693	104.412	53.637	1.00	30.73	B	C
ATOM	3777	CG	LYS B 233	15.074	105.817	54.076	1.00	37.18	B	C
ATOM	3778	CD	LYS B 233	15.073	105.930	55.594	1.00	41.29	B	C
ATOM	3779	CE	LYS B 233	15.358	107.357	56.045	1.00	46.10	B	C
ATOM	3780	NZ	LYS B 233	15.389	107.476	57.535	1.00	49.46	B	N

Figure 6000

ATOM	3781	C	LYS B 233	14.115	102.805	51.823	1.00	25.78	B	C
ATOM	3782	O	LYS B 233	12.984	102.404	52.108	1.00	21.74	B	O
ATOM	3783	N	VAL B 234	15.027	102.041	51.238	1.00	23.23	B	N
ATOM	3784	CA	VAL B 234	14.755	100.652	50.902	1.00	22.01	B	C
ATOM	3785	CB	VAL B 234	14.425	100.486	49.403	1.00	22.47	B	C
ATOM	3786	CG1	VAL B 234	14.095	99.034	49.105	1.00	23.89	B	C
ATOM	3787	CG2	VAL B 234	13.267	101.386	49.015	1.00	24.31	B	C
ATOM	3788	C	VAL B 234	15.997	99.825	51.204	1.00	21.91	B	C
ATOM	3789	O	VAL B 234	17.083	100.121	50.702	1.00	19.49	B	O
ATOM	3790	N	GLU B 235	15.850	98.805	52.041	1.00	19.26	B	N
ATOM	3791	CA	GLU B 235	16.987	97.956	52.343	1.00	19.57	B	C
ATOM	3792	CB	GLU B 235	17.407	98.085	53.812	1.00	22.19	B	C
ATOM	3793	CG	GLU B 235	16.367	97.736	54.849	1.00	27.30	B	C
ATOM	3794	CD	GLU B 235	16.893	97.954	56.266	1.00	31.20	B	C
ATOM	3795	OE1	GLU B 235	17.214	99.113	56.617	1.00	30.91	B	O
ATOM	3796	OE2	GLU B 235	16.992	96.967	57.027	1.00	31.05	B	O
ATOM	3797	C	GLU B 235	16.667	96.513	51.979	1.00	17.90	B	C
ATOM	3798	O	GLU B 235	15.514	96.071	52.067	1.00	17.20	B	O
ATOM	3799	N	PHE B 236	17.694	95.797	51.538	1.00	15.16	B	N
ATOM	3800	CA	PHE B 236	17.540	94.417	51.121	1.00	14.57	B	C
ATOM	3801	CB	PHE B 236	18.080	94.240	49.702	1.00	13.24	B	C
ATOM	3802	CG	PHE B 236	17.406	95.123	48.695	1.00	14.78	B	C
ATOM	3803	CD1	PHE B 236	17.807	96.448	48.529	1.00	13.54	B	C
ATOM	3804	CD2	PHE B 236	16.338	94.647	47.944	1.00	13.10	B	C
ATOM	3805	CE1	PHE B 236	17.148	97.281	47.625	1.00	15.52	B	C
ATOM	3806	CE2	PHE B 236	15.676	95.471	47.043	1.00	11.79	B	C
ATOM	3807	CZ	PHE B 236	16.083	96.792	46.884	1.00	13.41	B	C
ATOM	3808	C	PHE B 236	18.206	93.432	52.055	1.00	14.79	B	C
ATOM	3809	O	PHE B 236	19.298	93.668	52.566	1.00	14.15	B	O
ATOM	3810	N	HIS B 237	17.519	92.319	52.270	1.00	13.68	B	N
ATOM	3811	CA	HIS B 237	17.993	91.266	53.147	1.00	11.28	B	C
ATOM	3812	CB	HIS B 237	17.235	91.319	54.466	1.00	12.27	B	C
ATOM	3813	CG	HIS B 237	17.437	92.597	55.219	1.00	14.02	B	C
ATOM	3814	CD2	HIS B 237	16.779	93.778	55.159	1.00	14.88	B	C
ATOM	3815	ND1	HIS B 237	18.460	92.771	56.126	1.00	14.41	B	N
ATOM	3816	CE1	HIS B 237	18.423	94.006	56.593	1.00	18.35	B	C
ATOM	3817	NE2	HIS B 237	17.413	94.638	56.023	1.00	14.90	B	N
ATOM	3818	C	HIS B 237	17.705	89.961	52.437	1.00	13.01	B	C
ATOM	3819	O	HIS B 237	16.725	89.860	51.702	1.00	12.07	B	O
ATOM	3820	N	ALA B 238	18.554	88.967	52.665	1.00	12.63	B	N
ATOM	3821	CA	ALA B 238	18.387	87.671	52.022	1.00	11.54	B	C
ATOM	3822	CB	ALA B 238	19.018	87.700	50.639	1.00	9.85	B	C
ATOM	3823	C	ALA B 238	19.010	86.554	52.836	1.00	14.48	B	C
ATOM	3824	O	ALA B 238	19.998	86.765	53.533	1.00	14.69	B	O
ATOM	3825	N	SER B 239	18.424	85.364	52.741	1.00	14.68	B	N
ATOM	3826	CA	SER B 239	18.948	84.202	53.447	1.00	14.80	B	C
ATOM	3827	CB	SER B 239	17.862	83.141	53.608	1.00	13.43	B	C
ATOM	3828	OG	SER B 239	17.340	82.758	52.355	1.00	13.26	B	O
ATOM	3829	C	SER B 239	20.104	83.656	52.614	1.00	14.91	B	C
ATOM	3830	O	SER B 239	20.945	82.902	53.107	1.00	12.99	B	O
ATOM	3831	N	GLY B 240	20.134	84.050	51.344	1.00	14.12	B	N
ATOM	3832	CA	GLY B 240	21.197	83.631	50.455	1.00	15.59	B	C
ATOM	3833	C	GLY B 240	22.217	84.752	50.346	1.00	16.66	B	C
ATOM	3834	O	GLY B 240	22.520	85.416	51.334	1.00	16.99	B	O
ATOM	3835	N	ASP B 241	22.732	84.985	49.145	1.00	15.94	B	N
ATOM	3836	CA	ASP B 241	23.722	86.036	48.947	1.00	17.18	B	C
ATOM	3837	CB	ASP B 241	24.487	85.795	47.649	1.00	18.32	B	C
ATOM	3838	CG	ASP B 241	25.703	86.673	47.527	1.00	21.73	B	C

Figure 6PPP

ATOM	3839	OD1 ASP B 241	25.702	87.771	48.126	1.00	22.80	B	O
ATOM	3840	OD2 ASP B 241	26.653	86.277	46.824	1.00	23.86	B	O
ATOM	3841	C ASP B 241	23.070	87.416	48.899	1.00	15.91	B	C
ATOM	3842	O ASP B 241	22.566	87.838	47.855	1.00	18.69	B	O
ATOM	3843	N VAL B 242	23.091	88.125	50.022	1.00	15.82	B	N
ATOM	3844	CA VAL B 242	22.480	89.447	50.079	1.00	15.47	B	C
ATOM	3845	CB VAL B 242	22.373	89.961	51.538	1.00	14.55	B	C
ATOM	3846	CG1 VAL B 242	23.753	90.329	52.079	1.00	14.67	B	C
ATOM	3847	CG2 VAL B 242	21.405	91.147	51.599	1.00	13.95	B	C
ATOM	3848	C VAL B 242	23.230	90.480	49.242	1.00	16.20	B	C
ATOM	3849	O VAL B 242	22.624	91.396	48.693	1.00	16.97	B	O
ATOM	3850	N ILE B 243	24.546	90.347	49.145	1.00	15.87	B	N
ATOM	3851	CA ILE B 243	25.307	91.303	48.351	1.00	15.88	B	C
ATOM	3852	CB ILE B 243	26.833	91.076	48.512	1.00	17.32	B	C
ATOM	3853	CG2 ILE B 243	27.606	91.924	47.510	1.00	17.19	B	C
ATOM	3854	CG1 ILE B 243	27.249	91.447	49.940	1.00	19.37	B	C
ATOM	3855	CD1 ILE B 243	28.685	91.096	50.286	1.00	19.42	B	C
ATOM	3856	C ILE B 243	24.882	91.191	46.889	1.00	14.23	B	C
ATOM	3857	O ILE B 243	24.745	92.200	46.201	1.00	14.19	B	O
ATOM	3858	N TRP B 244	24.651	89.967	46.421	1.00	14.60	B	N
ATOM	3859	CA TRP B 244	24.207	89.756	45.046	1.00	14.98	B	C
ATOM	3860	CB TRP B 244	24.078	88.264	44.729	1.00	15.60	B	C
ATOM	3861	CG TRP B 244	23.575	87.999	43.329	1.00	16.65	B	C
ATOM	3862	CD2 TRP B 244	22.210	87.806	42.930	1.00	19.35	B	C
ATOM	3863	CE2 TRP B 244	22.206	87.617	41.527	1.00	18.45	B	C
ATOM	3864	CE3 TRP B 244	20.989	87.775	43.622	1.00	18.90	B	C
ATOM	3865	CD1 TRP B 244	24.321	87.924	42.184	1.00	18.57	B	C
ATOM	3866	NE1 TRP B 244	23.506	87.694	41.097	1.00	17.92	B	N
ATOM	3867	CZ2 TRP B 244	21.029	87.398	40.803	1.00	17.47	B	C
ATOM	3868	CZ3 TRP B 244	19.818	87.558	42.902	1.00	18.34	B	C
ATOM	3869	CH2 TRP B 244	19.847	87.371	41.504	1.00	17.51	B	C
ATOM	3870	C TRP B 244	22.845	90.409	44.850	1.00	16.58	B	C
ATOM	3871	O TRP B 244	22.616	91.102	43.859	1.00	17.56	B	O
ATOM	3872	N LEU B 245	21.937	90.180	45.796	1.00	15.30	B	N
ATOM	3873	CA LEU B 245	20.599	90.749	45.707	1.00	15.38	B	C
ATOM	3874	CB LEU B 245	19.746	90.306	46.900	1.00	14.42	B	C
ATOM	3875	CG LEU B 245	18.287	90.782	46.894	1.00	12.51	B	C
ATOM	3876	CD1 LEU B 245	17.536	90.163	45.723	1.00	15.01	B	C
ATOM	3877	CD2 LEU B 245	17.618	90.397	48.215	1.00	15.46	B	C
ATOM	3878	C LEU B 245	20.648	92.270	45.660	1.00	15.93	B	C
ATOM	3879	O LEU B 245	19.895	92.901	44.916	1.00	11.84	B	O
ATOM	3880	N GLU B 246	21.534	92.865	46.454	1.00	16.60	B	N
ATOM	3881	CA GLU B 246	21.636	94.317	46.480	1.00	17.29	B	C
ATOM	3882	CB GLU B 246	22.496	94.782	47.658	1.00	18.17	B	C
ATOM	3883	CG GLU B 246	21.896	94.455	49.020	1.00	19.87	B	C
ATOM	3884	CD GLU B 246	22.776	94.908	50.176	1.00	21.82	B	C
ATOM	3885	OE1 GLU B 246	24.001	94.687	50.101	1.00	23.59	B	O
ATOM	3886	OE2 GLU B 246	22.244	95.471	51.161	1.00	18.84	B	O
ATOM	3887	C GLU B 246	22.213	94.819	45.171	1.00	19.10	B	C
ATOM	3888	O GLU B 246	21.866	95.905	44.711	1.00	18.10	B	O
ATOM	3889	N ARG B 247	23.082	94.016	44.564	1.00	20.90	B	N
ATOM	3890	CA ARG B 247	23.694	94.384	43.296	1.00	21.36	B	C
ATOM	3891	CB ARG B 247	24.819	93.407	42.945	1.00	23.57	B	C
ATOM	3892	CG ARG B 247	25.698	93.843	41.780	1.00	28.81	B	C
ATOM	3893	CD ARG B 247	26.796	92.813	41.516	1.00	31.64	B	C
ATOM	3894	NE ARG B 247	27.648	92.622	42.688	1.00	33.01	B	N
ATOM	3895	CZ ARG B 247	27.953	91.437	43.214	1.00	34.15	B	C
ATOM	3896	NH1 ARG B 247	27.475	90.319	42.678	1.00	32.31	B	N

Figure 6QQQ

ATOM	3897	NH2 ARG B 247	28.742	91.372	44.281	1.00	32.59	B	N
ATOM	3898	C ARG B 247	22.612	94.369	42.218	1.00	21.28	B	C
ATOM	3899	O ARG B 247	22.613	95.212	41.319	1.00	18.68	B	O
ATOM	3900	N GLN B 248	21.689	93.411	42.316	1.00	19.88	B	N
ATOM	3901	CA GLN B 248	20.587	93.310	41.359	1.00	18.33	B	C
ATOM	3902	CB GLN B 248	19.778	92.027	41.586	1.00	16.87	B	C
ATOM	3903	CG GLN B 248	20.458	90.749	41.119	1.00	17.30	B	C
ATOM	3904	CD GLN B 248	20.794	90.768	39.631	1.00	21.87	B	C
ATOM	3905	OE1 GLN B 248	19.946	91.077	38.790	1.00	23.30	B	O
ATOM	3906	NE2 GLN B 248	22.032	90.423	39.304	1.00	24.03	B	N
ATOM	3907	C GLN B 248	19.670	94.518	41.528	1.00	17.34	B	C
ATOM	3908	O GLN B 248	19.166	95.071	40.550	1.00	16.87	B	O
ATOM	3909	N ALA B 249	19.451	94.917	42.777	1.00	15.06	B	N
ATOM	3910	CA ALA B 249	18.598	96.069	43.059	1.00	17.68	B	C
ATOM	3911	CB ALA B 249	18.435	96.240	44.557	1.00	14.89	B	C
ATOM	3912	C ALA B 249	19.210	97.332	42.449	1.00	16.19	B	C
ATOM	3913	O ALA B 249	18.509	98.166	41.878	1.00	15.71	B	O
ATOM	3914	N LYS B 250	20.523	97.466	42.578	1.00	15.67	B	N
ATOM	3915	CA LYS B 250	21.221	98.625	42.039	1.00	16.75	B	C
ATOM	3916	CB LYS B 250	22.686	98.599	42.493	1.00	20.71	B	C
ATOM	3917	CG LYS B 250	23.555	99.725	41.952	1.00	24.70	B	C
ATOM	3918	CD LYS B 250	23.089	101.093	42.425	1.00	29.48	B	C
ATOM	3919	CE LYS B 250	24.028	102.180	41.914	1.00	34.06	B	C
ATOM	3920	NZ LYS B 250	23.548	103.549	42.249	1.00	35.09	B	N
ATOM	3921	C LYS B 250	21.137	98.633	40.514	1.00	16.02	B	C
ATOM	3922	O LYS B 250	20.910	99.672	39.899	1.00	16.61	B	O
ATOM	3923	N GLU B 251	21.300	97.464	39.907	1.00	16.92	B	N
ATOM	3924	CA GLU B 251	21.256	97.366	38.457	1.00	16.87	B	C
ATOM	3925	CB GLU B 251	21.789	96.009	38.000	1.00	17.15	B	C
ATOM	3926	CG GLU B 251	21.913	95.902	36.492	1.00	19.76	B	C
ATOM	3927	CD GLU B 251	22.195	94.495	36.030	1.00	21.03	B	C
ATOM	3928	OE1 GLU B 251	22.812	93.728	36.796	1.00	21.54	B	O
ATOM	3929	OE2 GLU B 251	21.813	94.159	34.891	1.00	23.50	B	O
ATOM	3930	C GLU B 251	19.864	97.561	37.868	1.00	18.30	B	C
ATOM	3931	O GLU B 251	19.696	98.297	36.895	1.00	18.23	B	O
ATOM	3932	N TRP B 252	18.865	96.918	38.464	1.00	17.41	B	N
ATOM	3933	CA TRP B 252	17.509	96.997	37.939	1.00	17.31	B	C
ATOM	3934	CB TRP B 252	16.868	95.610	37.973	1.00	16.21	B	C
ATOM	3935	CG TRP B 252	17.639	94.610	37.197	1.00	16.40	B	C
ATOM	3936	CD2 TRP B 252	17.650	94.459	35.775	1.00	17.43	B	C
ATOM	3937	CE2 TRP B 252	18.546	93.412	35.475	1.00	17.08	B	C
ATOM	3938	CE3 TRP B 252	16.988	95.107	34.723	1.00	20.12	B	C
ATOM	3939	CD1 TRP B 252	18.505	93.677	37.690	1.00	18.25	B	C
ATOM	3940	NE1 TRP B 252	19.053	92.954	36.662	1.00	17.57	B	N
ATOM	3941	CZ2 TRP B 252	18.799	92.996	34.167	1.00	16.27	B	C
ATOM	3942	CZ3 TRP B 252	17.239	94.691	33.416	1.00	18.36	B	C
ATOM	3943	CH2 TRP B 252	18.137	93.646	33.153	1.00	18.85	B	C
ATOM	3944	C TRP B 252	16.555	98.000	38.565	1.00	20.68	B	C
ATOM	3945	O TRP B 252	15.631	98.468	37.896	1.00	23.26	B	O
ATOM	3946	N LEU B 253	16.762	98.333	39.833	1.00	20.19	B	N
ATOM	3947	CA LEU B 253	15.878	99.279	40.508	1.00	22.15	B	C
ATOM	3948	CB LEU B 253	15.392	98.680	41.832	1.00	19.99	B	C
ATOM	3949	CG LEU B 253	14.796	97.269	41.748	1.00	20.08	B	C
ATOM	3950	CD1 LEU B 253	14.520	96.731	43.149	1.00	15.94	B	C
ATOM	3951	CD2 LEU B 253	13.521	97.299	40.918	1.00	20.16	B	C
ATOM	3952	C LEU B 253	16.588	100.602	40.766	1.00	25.98	B	C
ATOM	3953	O LEU B 253	15.971	101.573	41.213	1.00	28.88	B	O
ATOM	3954	N LYS B 254	17.887	100.631	40.478	1.00	28.33	B	N

Figure 6RRR

ATOM	3955	CA	LYS B 254	18.713	101.822	40.684	1.00	32.00	B	C
ATOM	3956	CB	LYS B 254	18.210	102.985	39.818	1.00	33.97	B	C
ATOM	3957	CG	LYS B 254	17.844	102.597	38.388	1.00	37.77	B	C
ATOM	3958	CD	LYS B 254	18.983	101.890	37.661	1.00	38.80	B	C
ATOM	3959	CE	LYS B 254	18.544	101.453	36.265	1.00	41.63	B	C
ATOM	3960	NZ	LYS B 254	19.608	100.705	35.535	1.00	41.49	B	N
ATOM	3961	C	LYS B 254	18.677	102.214	42.162	1.00	32.29	B	C
ATOM	3962	O	LYS B 254	18.716	103.399	42.511	1.00	32.23	B	O
ATOM	3963	N	LEU B 255	18.603	101.201	43.022	1.00	31.24	B	N
ATOM	3964	CA	LEU B 255	18.560	101.397	44.469	1.00	34.52	B	C
ATOM	3965	CB	LEU B 255	17.250	100.844	45.039	1.00	34.04	B	C
ATOM	3966	CG	LEU B 255	15.917	101.437	44.584	1.00	36.59	B	C
ATOM	3967	CD1	LEU B 255	14.795	100.596	45.162	1.00	35.66	B	C
ATOM	3968	CD2	LEU B 255	15.791	102.888	45.036	1.00	36.85	B	C
ATOM	3969	C	LEU B 255	19.727	100.667	45.132	1.00	35.40	B	C
ATOM	3970	O	LEU B 255	20.326	99.794	44.473	1.00	34.56	B	O
ATOM	3971	OXT	LEU B 255	20.014	100.959	46.310	1.00	38.02	B	O
ATOM	3972	N	GLD G 301	22.488	67.641	43.303	1.00	8.65	G	N
ATOM	3973	CA	GLD G 301	22.952	68.704	42.405	1.00	12.93	G	C
ATOM	3974	CB	GLD G 301	21.889	69.041	41.338	1.00	11.63	G	C
ATOM	3975	CG	GLD G 301	20.594	69.573	41.934	1.00	12.92	G	C
ATOM	3976	CD	GLD G 301	20.824	70.895	42.710	1.00	11.91	G	C
ATOM	3977	OE1	GLD G 301	21.256	71.889	42.077	1.00	9.76	G	O
ATOM	3978	OE2	GLD G 301	20.616	70.917	43.937	1.00	14.58	G	O
ATOM	3979	C	GLD G 301	24.267	68.360	41.735	1.00	11.46	G	C
ATOM	3980	O	GLD G 301	24.630	67.169	41.697	1.00	11.93	G	O
ATOM	3981	O1	GLD G 301	24.920	69.308	41.262	1.00	13.36	G	O
ATOM	3982	N	GLD H 302	8.053	83.746	43.978	1.00	11.84	H	N
ATOM	3983	CA	GLD H 302	7.425	82.601	43.310	1.00	14.35	H	C
ATOM	3984	CB	GLD H 302	8.287	82.089	42.143	1.00	12.93	H	C
ATOM	3985	CG	GLD H 302	9.638	81.579	42.619	1.00	15.67	H	C
ATOM	3986	CD	GLD H 302	9.448	80.386	43.597	1.00	14.81	H	C
ATOM	3987	OE1	GLD H 302	8.878	79.354	43.166	1.00	15.24	H	O
ATOM	3988	OE2	GLD H 302	9.825	80.506	44.780	1.00	14.34	H	O
ATOM	3989	C	GLD H 302	6.027	82.912	42.821	1.00	13.03	H	C
ATOM	3990	O	GLD H 302	5.676	84.098	42.749	1.00	11.51	H	O
ATOM	3991	O1	GLD H 302	5.308	81.938	42.528	1.00	15.43	H	O
ATOM	3992	C2	INH E 1	13.974	93.547	34.196	1.00	21.79	E	C
ATOM	3993	O11	INH E 1	13.261	94.464	33.777	1.00	21.09	E	O
ATOM	3994	N3	INH E 1	14.165	93.379	35.564	1.00	20.44	E	N
ATOM	3995	C7	INH E 1	13.557	94.278	36.569	1.00	20.49	E	C
ATOM	3996	C8	INH E 1	12.019	94.237	36.759	1.00	24.92	E	C
ATOM	3997	C10	INH E 1	11.708	94.941	38.091	1.00	25.12	E	C
ATOM	3998	C9	INH E 1	11.452	92.810	36.842	1.00	26.68	E	C
ATOM	3999	C4	INH E 1	14.957	92.363	36.018	1.00	19.38	E	C
ATOM	4000	N16	INH E 1	15.217	92.064	37.221	1.00	20.22	E	N
ATOM	4001	N15	INH E 1	16.020	90.988	37.236	1.00	18.99	E	N
ATOM	4002	C23	INH E 1	16.484	90.354	38.489	1.00	18.33	E	C
ATOM	4003	C24	INH E 1	15.792	88.946	38.541	1.00	19.18	E	C
ATOM	4004	C29	INH E 1	14.344	88.784	38.535	1.00	19.84	E	C
ATOM	4005	C30	INH E 1	13.446	89.896	38.512	1.00	20.83	E	C
ATOM	4006	C31	INH E 1	12.035	89.694	38.503	1.00	22.55	E	C
ATOM	4007	C32	INH E 1	11.503	88.377	38.513	1.00	24.46	E	C
ATOM	4008	C33	INH E 1	12.376	87.256	38.536	1.00	23.50	E	C
ATOM	4009	C28	INH E 1	13.783	87.448	38.549	1.00	21.97	E	C
ATOM	4010	C27	INH E 1	14.636	86.315	38.572	1.00	21.05	E	C
ATOM	4011	C26	INH E 1	16.045	86.483	38.584	1.00	19.47	E	C
ATOM	4012	C25	INH E 1	16.617	87.782	38.567	1.00	22.25	E	C

Figure 6SSS

ATOM	4013	C14	INH	E	1	16.294	90.592	35.978	1.00	15.83	E	C
ATOM	4014	C17	INH	E	1	17.178	89.405	35.585	1.00	16.67	E	C
ATOM	4015	C22	INH	E	1	18.577	89.438	35.898	1.00	19.23	E	C
ATOM	4016	C21	INH	E	1	19.395	88.340	35.554	1.00	18.31	E	C
ATOM	4017	N20	INH	E	1	18.850	87.251	34.923	1.00	19.45	E	N
ATOM	4018	C19	INH	E	1	17.516	87.188	34.607	1.00	18.95	E	C
ATOM	4019	C18	INH	E	1	16.650	88.261	34.930	1.00	20.05	E	C
ATOM	4020	C5	INH	E	1	15.629	91.408	35.147	1.00	16.08	E	C
ATOM	4021	C6	INH	E	1	15.419	91.604	33.697	1.00	18.68	E	C
ATOM	4022	O13	INH	E	1	15.959	90.832	32.910	1.00	18.22	E	O
ATOM	4023	N1	INH	E	1	14.594	92.661	33.309	1.00	20.12	E	N
ATOM	4024	C12	INH	E	1	14.373	92.853	31.870	1.00	19.38	E	C
ATOM	4025	C2	INH	F	1	15.229	56.504	36.336	1.00	19.66	F	C
ATOM	4026	O11	INH	F	1	15.872	55.553	35.883	1.00	19.27	F	O
ATOM	4027	N3	INH	F	1	15.347	56.832	37.680	1.00	18.37	F	N
ATOM	4028	C7	INH	F	1	16.244	56.066	38.574	1.00	21.01	F	C
ATOM	4029	C8	INH	F	1	17.632	56.714	38.844	1.00	22.14	F	C
ATOM	4030	C10	INH	F	1	18.576	56.443	37.657	1.00	27.02	F	C
ATOM	4031	C9	INH	F	1	18.283	56.135	40.116	1.00	26.97	F	C
ATOM	4032	C4	INH	F	1	14.636	57.891	38.181	1.00	20.15	F	C
ATOM	4033	N16	INH	F	1	14.628	58.344	39.361	1.00	18.70	F	N
ATOM	4034	N15	INH	F	1	13.787	59.404	39.418	1.00	20.10	F	N
ATOM	4035	C23	INH	F	1	13.574	60.201	40.652	1.00	16.99	F	C
ATOM	4036	C24	INH	F	1	14.177	61.615	40.365	1.00	16.25	F	C
ATOM	4037	C29	INH	F	1	15.574	61.787	40.020	1.00	16.89	F	C
ATOM	4038	C30	INH	F	1	16.491	60.678	39.950	1.00	17.51	F	C
ATOM	4039	C31	INH	F	1	17.854	60.879	39.603	1.00	14.32	F	C
ATOM	4040	C32	INH	F	1	18.324	62.192	39.315	1.00	19.70	F	C
ATOM	4041	C33	INH	F	1	17.437	63.304	39.377	1.00	18.92	F	C
ATOM	4042	C28	INH	F	1	16.071	63.112	39.727	1.00	19.84	F	C
ATOM	4043	C27	INH	F	1	15.198	64.232	39.783	1.00	19.07	F	C
ATOM	4044	C26	INH	F	1	13.829	64.056	40.129	1.00	19.02	F	C
ATOM	4045	C25	INH	F	1	13.322	62.761	40.417	1.00	19.18	F	C
ATOM	4046	C14	INH	F	1	13.224	59.615	38.219	1.00	20.53	F	C
ATOM	4047	C17	INH	F	1	12.214	60.722	37.880	1.00	21.41	F	C
ATOM	4048	C22	INH	F	1	10.902	60.683	38.443	1.00	24.07	F	C
ATOM	4049	C21	INH	F	1	9.981	61.718	38.139	1.00	24.54	F	C
ATOM	4050	N20	INH	F	1	10.356	62.748	37.310	1.00	24.94	F	N
ATOM	4051	C19	INH	F	1	11.609	62.812	36.753	1.00	22.24	F	C
ATOM	4052	C18	INH	F	1	12.564	61.805	37.024	1.00	22.59	F	C
ATOM	4053	C5	INH	F	1	13.722	58.699	37.372	1.00	19.26	F	C
ATOM	4054	C6	INH	F	1	13.620	58.311	35.947	1.00	19.59	F	C
ATOM	4055	O13	INH	F	1	12.881	58.941	35.211	1.00	18.89	F	O
ATOM	4056	N1	INH	F	1	14.371	57.239	35.521	1.00	18.86	F	N
ATOM	4057	C12	INH	F	1	14.267	56.869	34.104	1.00	22.90	F	C
ATOM	4058	OH2	TIP	S	1	26.694	70.185	39.535	1.00	10.43	S	O
ATOM	4059	OH2	TIP	S	2	26.903	61.775	37.433	1.00	10.86	S	O
ATOM	4060	OH2	TIP	S	3	35.118	64.928	45.661	1.00	9.77	S	O
ATOM	4061	OH2	TIP	S	4	3.740	88.714	42.243	1.00	12.17	S	O
ATOM	4062	OH2	TIP	S	5	-3.817	87.331	48.367	1.00	15.62	S	O
ATOM	4063	OH2	TIP	S	6	16.515	80.411	54.861	1.00	15.64	S	O
ATOM	4064	OH2	TIP	S	7	26.620	62.820	41.255	1.00	10.32	S	O
ATOM	4065	OH2	TIP	S	8	3.173	81.112	41.277	1.00	12.87	S	O
ATOM	4066	OH2	TIP	S	9	-5.009	77.145	39.859	1.00	14.54	S	O
ATOM	4067	OH2	TIP	S	10	17.072	78.274	43.100	1.00	15.49	S	O
ATOM	4068	OH2	TIP	S	11	11.094	82.014	54.953	1.00	13.66	S	O
ATOM	4069	OH2	TIP	S	12	23.114	78.487	54.347	1.00	14.98	S	O
ATOM	4070	OH2	TIP	S	13	20.046	86.513	47.218	1.00	13.55	S	O

Figure 6TTT

ATOM	4071	OH2 TIP S	14	2.655	89.017	38.291	1.00	15.07	S	O
ATOM	4072	OH2 TIP S	15	9.228	70.350	55.121	1.00	12.46	S	O
ATOM	4073	OH2 TIP S	16	16.739	84.862	44.381	1.00	12.76	S	O
ATOM	4074	OH2 TIP S	17	25.567	61.078	39.581	1.00	14.41	S	O
ATOM	4075	OH2 TIP S	18	37.252	56.626	40.690	1.00	14.19	S	O
ATOM	4076	OH2 TIP S	19	18.275	89.911	32.191	1.00	17.34	S	O
ATOM	4077	OH2 TIP S	20	34.008	72.385	38.024	1.00	14.04	S	O
ATOM	4078	OH2 TIP S	21	-1.688	79.172	55.257	1.00	19.38	S	O
ATOM	4079	OH2 TIP S	22	22.366	80.667	29.821	1.00	24.75	S	O
ATOM	4080	OH2 TIP S	23	12.380	75.091	59.029	1.00	20.05	S	O
ATOM	4081	OH2 TIP S	24	22.730	75.591	37.990	1.00	18.05	S	O
ATOM	4082	OH2 TIP S	25	-4.035	89.431	50.414	1.00	17.74	S	O
ATOM	4083	OH2 TIP S	26	4.573	89.940	39.949	1.00	14.11	S	O
ATOM	4084	OH2 TIP S	27	-1.906	87.737	40.180	1.00	17.43	S	O
ATOM	4085	OH2 TIP S	28	10.589	69.698	44.737	1.00	21.71	S	O
ATOM	4086	OH2 TIP S	29	25.201	95.439	52.148	1.00	16.83	S	O
ATOM	4087	OH2 TIP S	30	-8.367	85.700	23.246	1.00	15.98	S	O
ATOM	4088	OH2 TIP S	31	35.982	63.130	47.769	1.00	15.06	S	O
ATOM	4089	OH2 TIP S	32	21.296	70.481	54.804	1.00	19.30	S	O
ATOM	4090	OH2 TIP S	33	20.570	73.504	39.900	1.00	18.13	S	O
ATOM	4091	OH2 TIP S	34	27.666	49.772	40.587	1.00	14.52	S	O
ATOM	4092	OH2 TIP S	35	9.700	74.285	55.955	1.00	16.17	S	O
ATOM	4093	OH2 TIP S	36	12.186	64.800	48.529	1.00	17.60	S	O
ATOM	4094	OH2 TIP S	37	13.322	82.831	56.421	1.00	13.15	S	O
ATOM	4095	OH2 TIP S	38	34.693	38.751	49.392	1.00	20.67	S	O
ATOM	4096	OH2 TIP S	39	-5.001	91.649	54.454	1.00	20.34	S	O
ATOM	4097	OH2 TIP S	40	15.761	67.824	58.496	1.00	21.39	S	O
ATOM	4098	OH2 TIP S	41	11.148	84.424	43.877	1.00	12.67	S	O
ATOM	4099	OH2 TIP S	42	37.642	61.003	46.856	1.00	17.93	S	O
ATOM	4100	OH2 TIP S	43	-4.373	79.173	41.785	1.00	16.71	S	O
ATOM	4101	OH2 TIP S	44	43.723	52.077	51.584	1.00	18.94	S	O
ATOM	4102	OH2 TIP S	45	20.137	97.010	51.207	1.00	22.61	S	O
ATOM	4103	OH2 TIP S	46	-4.186	94.391	33.354	1.00	24.48	S	O
ATOM	4104	OH2 TIP S	47	10.434	59.744	34.860	1.00	20.09	S	O
ATOM	4105	OH2 TIP S	48	11.296	69.306	47.243	1.00	20.43	S	O
ATOM	4106	OH2 TIP S	49	13.514	84.678	43.033	1.00	17.25	S	O
ATOM	4107	OH2 TIP S	50	27.738	70.677	61.698	1.00	22.46	S	O
ATOM	4108	OH2 TIP S	51	16.289	72.356	55.129	1.00	13.74	S	O
ATOM	4109	OH2 TIP S	52	-4.477	95.904	37.489	1.00	27.31	S	O
ATOM	4110	OH2 TIP S	53	34.164	74.207	35.803	1.00	16.19	S	O
ATOM	4111	OH2 TIP S	54	13.181	73.070	43.734	1.00	17.17	S	O
ATOM	4112	OH2 TIP S	55	-3.958	90.260	57.512	1.00	25.11	S	O
ATOM	4113	OH2 TIP S	56	30.703	42.485	54.038	1.00	21.11	S	O
ATOM	4114	OH2 TIP S	57	30.922	56.349	27.885	1.00	20.13	S	O
ATOM	4115	OH2 TIP S	58	14.662	74.601	55.720	1.00	22.72	S	O
ATOM	4116	OH2 TIP S	59	38.507	59.138	50.812	1.00	19.14	S	O
ATOM	4117	OH2 TIP S	60	42.816	67.475	28.609	1.00	20.79	S	O
ATOM	4118	OH2 TIP S	61	-6.400	95.465	43.206	1.00	18.25	S	O
ATOM	4119	OH2 TIP S	62	6.561	102.864	47.606	1.00	21.89	S	O
ATOM	4120	OH2 TIP S	63	35.560	76.427	29.271	1.00	20.86	S	O
ATOM	4121	OH2 TIP S	64	5.810	69.019	32.123	1.00	25.31	S	O
ATOM	4122	OH2 TIP S	65	30.127	54.457	33.804	1.00	22.20	S	O
ATOM	4123	OH2 TIP S	66	14.517	98.509	59.915	1.00	20.97	S	O
ATOM	4124	OH2 TIP S	67	20.921	81.728	55.488	1.00	15.12	S	O
ATOM	4125	OH2 TIP S	68	18.125	78.127	55.061	1.00	22.38	S	O
ATOM	4126	OH2 TIP S	69	4.578	106.224	53.414	1.00	23.88	S	O
ATOM	4127	OH2 TIP S	70	-13.259	95.151	42.403	1.00	22.02	S	O
ATOM	4128	OH2 TIP S	71	19.506	66.848	43.948	1.00	14.64	S	O

Figure 6UUU

ATOM	4129	OH2 TIP S	72	20.492	58.168	29.357	1.00	24.23	S	O
ATOM	4130	OH2 TIP S	73	14.362	66.682	45.311	1.00	21.95	S	O
ATOM	4131	OH2 TIP S	74	37.948	64.500	49.199	1.00	22.89	S	O
ATOM	4132	OH2 TIP S	75	22.382	83.107	46.881	1.00	21.36	S	O
ATOM	4133	OH2 TIP S	76	2.257	71.707	33.743	1.00	22.26	S	O
ATOM	4134	OH2 TIP S	77	28.562	50.607	60.811	1.00	23.59	S	O
ATOM	4135	OH2 TIP S	78	12.908	55.269	54.605	1.00	22.04	S	O
ATOM	4136	OH2 TIP S	79	23.712	82.581	52.850	1.00	18.46	S	O
ATOM	4137	OH2 TIP S	80	6.000	64.702	50.376	1.00	22.24	S	O
ATOM	4138	OH2 TIP S	81	31.597	63.665	38.013	1.00	16.06	S	O
ATOM	4139	OH2 TIP S	82	3.204	101.393	39.851	1.00	18.09	S	O
ATOM	4140	OH2 TIP S	83	-3.695	88.746	62.013	1.00	24.84	S	O
ATOM	4141	OH2 TIP S	84	17.546	65.110	21.326	1.00	19.55	S	O
ATOM	4142	OH2 TIP S	85	26.824	59.347	62.759	1.00	26.30	S	O
ATOM	4143	OH2 TIP S	86	29.013	78.700	36.194	1.00	29.19	S	O
ATOM	4144	OH2 TIP S	87	-21.912	84.760	37.477	1.00	26.29	S	O
ATOM	4145	OH2 TIP S	88	37.659	49.564	54.905	1.00	21.54	S	O
ATOM	4146	OH2 TIP S	89	15.623	89.654	61.494	1.00	20.60	S	O
ATOM	4147	OH2 TIP S	90	46.913	73.636	27.864	1.00	24.09	S	O
ATOM	4148	OH2 TIP S	91	31.635	68.716	13.795	1.00	26.68	S	O
ATOM	4149	OH2 TIP S	92	8.998	77.444	41.106	1.00	21.52	S	O
ATOM	4150	OH2 TIP S	93	19.563	69.848	56.803	1.00	23.78	S	O
ATOM	4151	OH2 TIP S	94	21.054	77.796	57.903	1.00	20.91	S	O
ATOM	4152	OH2 TIP S	95	39.029	70.195	42.752	1.00	19.43	S	O
ATOM	4153	OH2 TIP S	96	16.357	59.879	28.472	1.00	34.72	S	O
ATOM	4154	OH2 TIP S	97	6.277	85.600	21.656	1.00	18.30	S	O
ATOM	4155	OH2 TIP S	98	24.381	79.010	25.797	1.00	24.45	S	O
ATOM	4156	OH2 TIP S	99	-0.330	73.515	46.326	1.00	21.44	S	O
ATOM	4157	OH2 TIP S	100	19.996	63.469	21.479	1.00	20.07	S	O
ATOM	4158	OH2 TIP S	101	8.484	64.804	37.057	1.00	21.03	S	O
ATOM	4159	OH2 TIP S	102	18.063	76.067	36.689	1.00	20.99	S	O
ATOM	4160	OH2 TIP S	103	13.804	68.104	43.044	1.00	25.16	S	O
ATOM	4161	OH2 TIP S	104	10.019	70.355	50.629	1.00	23.39	S	O
ATOM	4162	OH2 TIP S	105	36.764	63.450	55.390	1.00	19.23	S	O
ATOM	4163	OH2 TIP S	106	-3.017	81.106	52.043	1.00	29.08	S	O
ATOM	4164	OH2 TIP S	107	33.894	73.874	51.602	1.00	22.56	S	O
ATOM	4165	OH2 TIP S	108	-10.562	79.620	30.884	1.00	25.06	S	O
ATOM	4166	OH2 TIP S	109	-3.241	87.887	16.187	1.00	22.20	S	O
ATOM	4167	OH2 TIP S	110	36.320	79.997	40.961	1.00	30.47	S	O
ATOM	4168	OH2 TIP S	111	12.536	71.003	57.233	1.00	20.62	S	O
ATOM	4169	OH2 TIP S	112	-0.943	95.950	34.554	1.00	25.68	S	O
ATOM	4170	OH2 TIP S	113	14.938	45.779	46.539	1.00	32.69	S	O
ATOM	4171	OH2 TIP S	114	44.541	72.750	24.779	1.00	28.57	S	O
ATOM	4172	OH2 TIP S	115	16.028	56.338	61.884	1.00	27.69	S	O
ATOM	4173	OH2 TIP S	116	25.959	84.862	44.510	1.00	22.27	S	O
ATOM	4174	OH2 TIP S	117	11.898	70.641	40.303	1.00	29.38	S	O
ATOM	4175	OH2 TIP S	118	20.005	82.352	45.778	1.00	23.69	S	O
ATOM	4176	OH2 TIP S	119	24.653	82.113	42.509	1.00	26.73	S	O
ATOM	4177	OH2 TIP S	120	39.045	70.244	55.129	1.00	26.86	S	O
ATOM	4178	OH2 TIP S	121	-14.861	94.263	30.815	1.00	25.70	S	O
ATOM	4179	OH2 TIP S	122	28.805	79.348	55.384	1.00	24.42	S	O
ATOM	4180	OH2 TIP S	123	34.409	78.819	35.704	1.00	22.51	S	O
ATOM	4181	OH2 TIP S	124	25.708	95.887	48.431	1.00	22.52	S	O
ATOM	4182	OH2 TIP S	125	20.200	81.715	43.235	1.00	28.28	S	O
ATOM	4183	OH2 TIP S	126	8.358	89.545	27.306	1.00	25.44	S	O
ATOM	4184	OH2 TIP S	127	28.451	42.142	55.370	1.00	32.71	S	O
ATOM	4185	OH2 TIP S	128	-1.140	72.535	35.377	1.00	25.03	S	O
ATOM	4186	OH2 TIP S	129	42.723	73.261	29.197	1.00	26.01	S	O

Figure 6VVV

ATOM	4187	OH2 TIP S 130	0.475	106.754	43.565	1.00	35.60	S	O
ATOM	4188	OH2 TIP S 131	-8.799	81.517	47.238	1.00	30.82	S	O
ATOM	4189	OH2 TIP S 132	18.817	63.647	62.682	1.00	23.39	S	O
ATOM	4190	OH2 TIP S 133	-14.788	83.367	33.703	1.00	22.25	S	O
ATOM	4191	OH2 TIP S 134	28.486	47.289	40.587	1.00	26.04	S	O
ATOM	4192	OH2 TIP S 135	13.709	66.288	58.292	1.00	31.84	S	O
ATOM	4193	OH2 TIP S 136	4.869	72.011	43.934	1.00	21.85	S	O
ATOM	4194	OH2 TIP S 137	-19.103	77.442	35.205	1.00	29.80	S	O
ATOM	4195	OH2 TIP S 138	20.407	79.490	35.831	1.00	35.16	S	O
ATOM	4196	OH2 TIP S 139	10.860	84.010	22.443	1.00	27.02	S	O
ATOM	4197	OH2 TIP S 140	0.151	101.506	60.922	1.00	25.88	S	O
ATOM	4198	OH2 TIP S 141	31.584	47.279	41.254	1.00	23.80	S	O
ATOM	4199	OH2 TIP S 142	38.066	70.701	25.990	1.00	19.24	S	O
ATOM	4200	OH2 TIP S 143	44.977	72.631	31.204	1.00	23.78	S	O
ATOM	4201	OH2 TIP S 144	10.719	65.231	40.054	1.00	26.38	S	O
ATOM	4202	OH2 TIP S 145	7.475	91.297	29.034	1.00	27.02	S	O
ATOM	4203	OH2 TIP S 146	37.874	61.748	52.268	1.00	29.73	S	O
ATOM	4204	OH2 TIP S 147	-5.574	93.894	53.509	1.00	23.66	S	O
ATOM	4205	OH2 TIP S 148	17.820	78.905	36.654	1.00	28.79	S	O
ATOM	4206	OH2 TIP S 149	29.549	83.050	48.881	1.00	26.52	S	O
ATOM	4207	OH2 TIP S 150	-10.366	100.932	54.067	1.00	20.68	S	O
ATOM	4208	OH2 TIP S 151	30.504	64.646	60.794	1.00	28.37	S	O
ATOM	4209	OH2 TIP S 152	49.012	70.756	24.772	1.00	31.55	S	O
ATOM	4210	OH2 TIP S 153	30.846	45.257	57.188	1.00	31.72	S	O
ATOM	4211	OH2 TIP S 154	43.180	59.055	25.923	1.00	26.29	S	O
ATOM	4212	OH2 TIP S 155	22.523	66.585	65.647	1.00	32.96	S	O
ATOM	4213	OH2 TIP S 156	2.253	106.632	56.997	1.00	37.06	S	O
ATOM	4214	OH2 TIP S 157	21.987	90.927	36.214	1.00	24.25	S	O
ATOM	4215	OH2 TIP S 158	24.995	45.779	50.248	1.00	28.19	S	O
ATOM	4216	OH2 TIP S 159	24.701	87.274	52.417	1.00	25.41	S	O
ATOM	4217	OH2 TIP S 160	19.481	54.793	61.669	1.00	24.28	S	O
ATOM	4218	OH2 TIP S 161	5.052	66.267	52.559	1.00	20.50	S	O
ATOM	4219	OH2 TIP S 162	24.083	47.425	48.238	1.00	32.20	S	O
ATOM	4220	OH2 TIP S 163	50.567	67.161	31.028	1.00	21.83	S	O
ATOM	4221	OH2 TIP S 164	15.358	64.805	23.213	1.00	24.49	S	O
ATOM	4222	OH2 TIP S 165	-1.913	91.256	42.961	1.00	21.23	S	O
ATOM	4223	OH2 TIP S 166	32.576	60.552	40.991	1.00	24.61	S	O
ATOM	4224	OH2 TIP S 167	5.829	70.768	57.525	1.00	22.41	S	O
ATOM	4225	OH2 TIP S 168	6.357	83.074	62.946	1.00	20.77	S	O
ATOM	4226	OH2 TIP S 169	28.962	85.053	47.200	1.00	36.42	S	O
ATOM	4227	OH2 TIP S 170	22.828	55.785	37.965	1.00	34.04	S	O
ATOM	4228	OH2 TIP S 171	9.903	109.166	51.388	1.00	29.79	S	O
ATOM	4229	OH2 TIP S 172	6.629	71.093	33.592	1.00	24.39	S	O
ATOM	4230	OH2 TIP S 173	24.428	80.747	55.009	1.00	17.22	S	O
ATOM	4231	OH2 TIP S 174	11.049	67.896	25.243	1.00	28.73	S	O
ATOM	4232	OH2 TIP S 175	26.525	84.672	50.346	1.00	22.59	S	O
ATOM	4233	OH2 TIP S 176	14.485	79.387	59.276	1.00	36.33	S	O
ATOM	4234	OH2 TIP S 178	-8.133	88.350	22.930	1.00	24.98	S	O
ATOM	4235	OH2 TIP S 179	11.008	89.282	26.933	1.00	26.38	S	O
ATOM	4236	OH2 TIP S 180	29.198	77.232	57.047	1.00	28.34	S	O
ATOM	4237	OH2 TIP S 181	42.985	63.495	21.723	1.00	32.93	S	O
ATOM	4238	OH2 TIP S 182	-2.488	92.239	26.844	1.00	31.41	S	O
ATOM	4239	OH2 TIP S 183	38.070	68.391	49.950	1.00	27.44	S	O
ATOM	4240	OH2 TIP S 184	3.026	87.382	17.697	1.00	24.17	S	O
ATOM	4241	OH2 TIP S 185	32.032	45.265	50.288	1.00	26.40	S	O
ATOM	4242	OH2 TIP S 186	39.904	55.447	42.177	1.00	25.49	S	O
ATOM	4243	OH2 TIP S 187	2.867	70.555	28.600	1.00	25.55	S	O
ATOM	4244	OH2 TIP S 188	28.784	77.898	31.205	1.00	27.78	S	O

Figure 6WWW

ATOM	4245	OH2 TIP S 189	6.525	74.751	39.761	1.00	27.53	S	O
ATOM	4246	OH2 TIP S 190	-6.708	81.142	14.878	1.00	30.15	S	O
ATOM	4247	OH2 TIP S 191	23.949	87.249	38.410	1.00	26.94	S	O
ATOM	4248	OH2 TIP S 192	5.279	83.214	19.647	1.00	23.04	S	O
ATOM	4249	OH2 TIP S 193	7.787	93.915	65.832	1.00	34.56	S	O
ATOM	4250	OH2 TIP S 194	40.056	62.665	49.571	1.00	45.56	S	O
ATOM	4251	OH2 TIP S 195	17.005	83.158	42.309	1.00	26.09	S	O
ATOM	4252	OH2 TIP S 196	39.783	52.482	36.066	1.00	43.89	S	O
ATOM	4253	OH2 TIP S 197	21.034	85.408	34.631	1.00	21.18	S	O
ATOM	4254	OH2 TIP S 198	-2.760	93.994	35.518	1.00	32.71	S	O
ATOM	4255	OH2 TIP S 199	-14.876	77.201	34.781	1.00	29.91	S	O
ATOM	4256	OH2 TIP S 200	7.796	94.208	62.630	1.00	34.21	S	O
ATOM	4257	OH2 TIP S 201	-10.407	94.563	54.451	1.00	30.66	S	O
ATOM	4258	OH2 TIP S 202	19.132	85.088	38.251	1.00	26.36	S	O
ATOM	4259	OH2 TIP S 203	46.329	71.427	42.245	1.00	38.45	S	O
ATOM	4260	OH2 TIP S 204	38.151	49.728	42.054	1.00	23.90	S	O
ATOM	4261	OH2 TIP S 205	-16.881	92.357	37.722	1.00	29.19	S	O
ATOM	4262	OH2 TIP S 206	8.018	58.831	39.198	1.00	17.50	S	O
ATOM	4263	OH2 TIP S 207	23.689	77.990	32.612	1.00	37.51	S	O
ATOM	4264	OH2 TIP S 208	30.303	45.065	54.676	1.00	28.16	S	O
ATOM	4265	OH2 TIP S 209	25.161	84.823	52.568	1.00	29.69	S	O
ATOM	4266	OH2 TIP S 210	23.062	78.703	21.684	1.00	26.51	S	O
ATOM	4267	OH2 TIP S 211	26.355	47.512	59.226	1.00	41.38	S	O
ATOM	4268	OH2 TIP S 212	12.364	73.834	56.670	1.00	17.58	S	O
ATOM	4269	OH2 TIP S 213	22.789	101.251	38.634	1.00	36.48	S	O
ATOM	4270	OH2 TIP S 214	30.444	78.274	42.812	1.00	18.27	S	O
ATOM	4271	OH2 TIP S 215	16.714	66.636	43.404	1.00	27.82	S	O
ATOM	4272	OH2 TIP S 216	11.118	110.647	48.883	1.00	41.21	S	O
ATOM	4273	OH2 TIP S 217	11.938	77.223	62.477	1.00	26.78	S	O
ATOM	4274	OH2 TIP S 218	21.348	98.318	46.299	1.00	22.54	S	O
ATOM	4275	OH2 TIP S 219	6.335	90.109	61.055	1.00	30.93	S	O
ATOM	4276	OH2 TIP S 220	16.849	58.092	31.635	1.00	27.78	S	O
ATOM	4277	OH2 TIP S 221	-14.977	98.435	36.110	1.00	29.94	S	O
ATOM	4278	OH2 TIP S 222	32.209	56.644	34.417	1.00	27.61	S	O
ATOM	4279	OH2 TIP S 223	38.616	69.338	19.683	1.00	35.00	S	O
ATOM	4280	OH2 TIP S 224	43.793	66.187	40.980	1.00	28.57	S	O
ATOM	4281	OH2 TIP S 225	25.865	49.291	48.912	1.00	22.19	S	O
ATOM	4282	OH2 TIP S 226	29.493	51.282	39.294	1.00	28.59	S	O
ATOM	4283	OH2 TIP S 227	8.557	68.734	23.715	1.00	32.38	S	O
ATOM	4284	OH2 TIP S 228	35.030	72.215	49.061	1.00	21.47	S	O
ATOM	4285	OH2 TIP S 229	-5.863	84.407	53.693	1.00	32.71	S	O
ATOM	4286	OH2 TIP S 230	8.409	66.822	21.454	1.00	32.17	S	O
ATOM	4287	OH2 TIP S 231	-16.090	88.535	25.766	1.00	45.41	S	O
ATOM	4288	OH2 TIP S 232	5.228	66.001	48.372	1.00	33.03	S	O
ATOM	4289	OH2 TIP S 233	22.372	81.334	39.929	1.00	38.56	S	O
ATOM	4290	OH2 TIP S 234	-11.344	82.468	23.312	1.00	32.37	S	O
ATOM	4291	OH2 TIP S 235	-5.663	88.297	52.367	1.00	28.46	S	O
ATOM	4292	OH2 TIP S 236	13.616	74.457	18.786	1.00	42.18	S	O
ATOM	4293	OH2 TIP S 237	25.283	53.133	37.923	1.00	40.56	S	O
ATOM	4294	OH2 TIP S 238	8.026	53.624	54.137	1.00	31.65	S	O
ATOM	4295	OH2 TIP S 239	34.534	62.367	11.800	1.00	31.60	S	O
ATOM	4296	OH2 TIP S 240	1.831	56.099	44.184	1.00	34.48	S	O
ATOM	4297	OH2 TIP S 241	49.497	62.599	26.810	1.00	26.78	S	O
ATOM	4298	OH2 TIP S 242	-4.758	72.368	21.533	1.00	38.11	S	O
ATOM	4299	OH2 TIP S 243	-5.868	83.431	58.623	1.00	34.40	S	O
ATOM	4300	OH2 TIP S 244	29.156	81.797	37.170	1.00	39.60	S	O
ATOM	4301	OH2 TIP S 245	21.609	85.611	37.638	1.00	20.34	S	O
ATOM	4302	OH2 TIP S 246	-4.284	77.490	49.709	1.00	35.30	S	O

Figure 6XXX

ATOM	4303	OH2 TIP S 247	31.807	48.664	61.432	1.00	43.66	S	O
ATOM	4304	OH2 TIP S 248	34.652	80.273	32.759	1.00	35.30	S	O
ATOM	4305	OH2 TIP S 249	-7.767	74.088	33.904	1.00	27.76	S	O
ATOM	4306	OH2 TIP S 250	-0.973	76.943	21.093	1.00	36.81	S	O
ATOM	4307	OH2 TIP S 251	17.520	103.841	50.759	1.00	37.13	S	O
ATOM	4308	OH2 TIP S 252	36.677	59.162	23.943	1.00	39.63	S	O
ATOM	4309	OH2 TIP S 253	-3.985	93.307	65.493	1.00	38.58	S	O
ATOM	4310	OH2 TIP S 254	26.053	53.836	34.851	1.00	37.31	S	O
ATOM	4311	OH2 TIP S 255	-7.010	78.156	28.377	1.00	28.40	S	O
ATOM	4312	OH2 TIP S 256	3.198	69.864	24.836	1.00	24.87	S	O
ATOM	4313	OH2 TIP S 257	-2.729	89.793	59.984	1.00	35.90	S	O
ATOM	4314	OH2 TIP S 259	12.874	62.780	21.486	1.00	40.71	S	O
ATOM	4315	OH2 TIP S 260	34.460	53.900	62.259	1.00	37.85	S	O
ATOM	4316	OH2 TIP S 261	8.524	50.114	40.677	1.00	29.93	S	O
ATOM	4317	OH2 TIP S 262	13.534	51.901	52.802	1.00	35.55	S	O
ATOM	4318	OH2 TIP S 263	-5.651	71.332	27.984	1.00	36.22	S	O
ATOM	4319	OH2 TIP S 264	10.884	74.117	37.648	1.00	23.87	S	O
ATOM	4320	OH2 TIP S 265	1.558	105.085	59.290	1.00	30.99	S	O
ATOM	4321	OH2 TIP S 267	22.855	87.241	54.244	1.00	39.85	S	O
ATOM	4322	OH2 TIP S 268	19.606	84.810	44.816	1.00	16.00	S	O
ATOM	4323	OH2 TIP S 269	10.246	57.810	32.854	1.00	25.86	S	O
ATOM	4324	OH2 TIP S 270	-21.599	79.618	39.328	1.00	38.76	S	O
ATOM	4325	OH2 TIP S 271	35.642	69.502	46.091	1.00	25.61	S	O
ATOM	4326	OH2 TIP S 272	7.124	71.606	39.935	1.00	32.52	S	O
ATOM	4327	OH2 TIP S 274	37.219	53.704	29.589	1.00	30.49	S	O
ATOM	4328	OH2 TIP S 275	15.688	71.656	41.660	1.00	35.47	S	O
ATOM	4329	OH2 TIP S 276	18.771	98.089	33.479	1.00	36.76	S	O
ATOM	4330	OH2 TIP S 277	18.891	96.723	59.037	1.00	34.81	S	O
ATOM	4331	OH2 TIP S 279	20.582	96.155	32.990	1.00	36.72	S	O
ATOM	4332	OH2 TIP S 280	38.382	46.507	54.083	1.00	22.09	S	O
ATOM	4333	OH2 TIP S 284	33.499	78.469	29.422	1.00	42.54	S	O
ATOM	4334	OH2 TIP S 285	43.663	56.107	27.511	1.00	34.42	S	O
ATOM	4335	OH2 TIP S 286	35.122	60.670	20.712	1.00	39.38	S	O
ATOM	4336	OH2 TIP S 287	-1.725	96.233	63.363	1.00	35.97	S	O
ATOM	4337	OH2 TIP S 290	18.717	83.949	40.601	1.00	23.89	S	O
ATOM	4338	OH2 TIP S 291	38.772	45.987	46.680	1.00	36.15	S	O
ATOM	4339	OH2 TIP S 292	20.224	69.382	59.695	1.00	29.64	S	O
ATOM	4340	OH2 TIP S 293	8.282	78.199	63.669	1.00	36.59	S	O
ATOM	4341	OH2 TIP S 294	14.047	63.860	59.319	1.00	44.69	S	O
ATOM	4342	OH2 TIP S 297	-5.817	72.739	40.818	1.00	38.14	S	O
ATOM	4343	OH2 TIP S 298	26.321	64.439	12.786	1.00	45.15	S	O
ATOM	4344	OH2 TIP S 299	-6.944	102.099	43.661	1.00	28.91	S	O
ATOM	4345	OH2 TIP S 300	31.982	51.444	38.891	1.00	26.30	S	O
ATOM	4346	OH2 TIP S 301	22.179	61.349	17.217	1.00	28.54	S	O
ATOM	4347	OH2 TIP S 302	11.846	66.672	46.440	1.00	15.33	S	O
ATOM	4348	OH2 TIP S 303	16.579	61.209	61.822	1.00	25.84	S	O
ATOM	4349	OH2 TIP S 304	9.179	61.102	31.089	1.00	35.18	S	O
ATOM	4350	OH2 TIP S 306	43.337	56.983	38.631	1.00	31.17	S	O
ATOM	4351	OH2 TIP S 307	-4.729	79.060	14.954	1.00	29.45	S	O
ATOM	4352	OH2 TIP S 309	3.264	96.531	34.343	1.00	35.87	S	O
ATOM	4353	OH2 TIP S 310	33.597	56.115	32.020	1.00	38.28	S	O
ATOM	4354	OH2 TIP S 312	21.131	84.199	42.642	1.00	16.36	S	O
ATOM	4355	OH2 TIP S 314	13.289	90.298	22.035	1.00	37.86	S	O
ATOM	4356	OH2 TIP S 315	-21.318	88.597	32.650	1.00	31.68	S	O
ATOM	4357	OH2 TIP S 316	0.324	97.812	61.903	1.00	28.65	S	O
ATOM	4358	OH2 TIP S 317	15.681	48.773	53.561	1.00	32.11	S	O
ATOM	4359	OH2 TIP S 318	6.414	66.203	28.644	1.00	45.39	S	O
ATOM	4360	OH2 TIP S 320	21.877	45.789	57.051	1.00	37.88	S	O

Figure 6YYY

ATOM	4361	OH2 TIP S 325	33.257	76.751	48.828	1.00	36.69	S	O
ATOM	4362	OH2 TIP S 326	-1.477	99.714	39.504	1.00	31.96	S	O
ATOM	4363	OH2 TIP S 327	7.083	107.442	40.232	1.00	34.50	S	O
ATOM	4364	OH2 TIP S 328	19.455	81.284	39.450	1.00	31.13	S	O
ATOM	4365	OH2 TIP S 330	18.928	59.678	27.698	1.00	23.64	S	O
ATOM	4366	OH2 TIP S 333	2.949	68.265	43.594	1.00	46.66	S	O
ATOM	4367	OH2 TIP S 334	-8.138	104.339	45.239	1.00	36.83	S	O
ATOM	4368	OH2 TIP S 336	3.891	58.458	48.159	1.00	40.09	S	O
ATOM	4369	OH2 TIP S 339	-11.491	79.098	22.692	1.00	31.58	S	O
ATOM	4370	OH2 TIP S 342	-3.605	77.350	56.479	1.00	33.40	S	O
ATOM	4371	OH2 TIP S 345	48.945	64.149	23.906	1.00	33.98	S	O
ATOM	4372	OH2 TIP S 348	17.597	50.879	59.000	1.00	46.70	S	O
ATOM	4373	OH2 TIP S 349	-19.548	99.216	33.850	1.00	31.30	S	O
ATOM	4374	OH2 TIP S 350	11.566	66.969	42.047	1.00	25.33	S	O
ATOM	4375	OH2 TIP S 353	24.674	43.379	42.738	1.00	46.49	S	O
ATOM	4376	OH2 TIP S 354	20.654	78.836	55.418	1.00	19.53	S	O
ATOM	4377	OH2 TIP S 357	17.254	91.782	60.031	1.00	23.92	S	O
ATOM	4378	OH2 TIP S 358	9.923	67.047	44.491	1.00	20.59	S	O
ATOM	4379	OH2 TIP S 359	36.952	66.998	45.661	1.00	21.28	S	O
ATOM	4380	OH2 TIP S 360	15.012	70.447	58.501	1.00	20.49	S	O
ATOM	4381	OH2 TIP S 361	38.560	66.828	47.799	1.00	18.16	S	O
ATOM	4382	OH2 TIP S 362	12.567	70.351	43.331	1.00	21.60	S	O
ATOM	4383	OH2 TIP S 363	10.275	70.909	59.173	1.00	20.25	S	O
ATOM	4384	OH2 TIP S 365	-8.636	80.604	29.420	1.00	20.84	S	O
ATOM	4385	OH2 TIP S 366	27.535	82.312	43.508	1.00	25.30	S	O
ATOM	4386	OH2 TIP S 367	17.257	86.397	26.338	1.00	29.08	S	O
ATOM	4387	OH2 TIP S 368	4.358	55.280	44.796	1.00	40.14	S	O
ATOM	4388	OH2 TIP S 369	8.463	83.561	21.334	1.00	22.41	S	O
ATOM	4389	OH2 TIP S 370	-8.086	97.612	37.816	1.00	25.46	S	O
ATOM	4390	OH2 TIP S 371	12.843	74.928	39.116	1.00	31.70	S	O
ATOM	4391	OH2 TIP S 372	8.347	72.232	57.105	1.00	25.70	S	O
ATOM	4392	OH2 TIP S 373	-3.834	109.911	52.412	1.00	25.46	S	O
ATOM	4393	OH2 TIP S 374	38.734	67.042	43.751	1.00	25.21	S	O
ATOM	4394	OH2 TIP S 375	20.952	90.132	33.041	1.00	26.25	S	O
ATOM	4395	OH2 TIP S 376	21.122	98.404	49.083	1.00	21.33	S	O
ATOM	4396	OH2 TIP S 377	-12.795	97.771	42.948	1.00	27.19	S	O
ATOM	4397	OH2 TIP S 378	24.316	79.549	28.534	1.00	25.40	S	O
ATOM	4398	OH2 TIP S 379	27.736	88.375	45.434	1.00	29.24	S	O
ATOM	4399	OH2 TIP S 380	8.225	59.683	36.172	1.00	24.77	S	O
ATOM	4400	OH2 TIP S 381	37.450	53.227	35.003	1.00	32.48	S	O
ATOM	4401	OH2 TIP S 382	-10.586	84.900	22.199	1.00	30.47	S	O
ATOM	4402	OH2 TIP S 383	-15.137	95.854	40.707	1.00	25.76	S	O
ATOM	4403	OH2 TIP S 384	16.777	65.477	62.229	1.00	26.46	S	O
ATOM	4404	OH2 TIP S 385	28.839	86.168	50.617	1.00	33.26	S	O
ATOM	4405	OH2 TIP S 386	17.382	84.892	57.199	1.00	22.87	S	O
ATOM	4406	OH2 TIP S 387	27.000	52.190	62.926	1.00	27.15	S	O
ATOM	4407	OH2 TIP S 388	31.661	79.835	35.615	1.00	28.03	S	O
ATOM	4408	OH2 TIP S 389	-4.676	84.758	48.894	1.00	31.68	S	O
ATOM	4409	OH2 TIP S 390	-5.662	91.557	50.040	1.00	31.19	S	O
ATOM	4410	OH2 TIP S 391	23.487	83.965	44.473	1.00	28.65	S	O
ATOM	4411	OH2 TIP S 392	-6.441	88.875	58.175	1.00	33.33	S	O
ATOM	4412	OH2 TIP S 393	7.603	93.526	36.250	1.00	30.57	S	O
ATOM	4413	OH2 TIP S 394	49.203	72.825	26.301	1.00	24.46	S	O
ATOM	4414	OH2 TIP S 395	28.479	61.371	62.617	1.00	32.12	S	O
ATOM	4415	OH2 TIP S 397	-9.168	83.076	17.253	1.00	25.74	S	O
ATOM	4416	OH2 TIP S 398	16.075	88.965	63.990	1.00	30.49	S	O
ATOM	4417	OH2 TIP S 400	13.310	95.842	67.259	1.00	29.76	S	O
ATOM	4418	OH2 TIP S 401	5.918	66.938	33.592	1.00	31.14	S	O

Figure 6ZZZ

ATOM	4419	OH2 TIP S 402	0.155	106.248	55.777	1.00	32.60	S	O
ATOM	4420	OH2 TIP S 403	6.110	92.248	62.655	1.00	27.95	S	O
ATOM	4421	OH2 TIP S 404	2.233	103.880	39.763	1.00	31.52	S	O
ATOM	4422	OH2 TIP S 405	25.694	98.715	48.972	1.00	29.93	S	O
ATOM	4423	OH2 TIP S 406	10.674	73.231	60.407	1.00	31.34	S	O
ATOM	4424	OH2 TIP S 409	51.882	66.157	29.120	1.00	26.96	S	O
ATOM	4425	OH2 TIP S 410	6.325	68.647	46.053	1.00	34.29	S	O
ATOM	4426	OH2 TIP S 412	39.391	64.285	54.825	1.00	28.64	S	O
ATOM	4427	OH2 TIP S 413	-2.620	73.079	47.858	1.00	31.55	S	O
ATOM	4428	OH2 TIP S 414	32.879	78.973	43.464	1.00	29.58	S	O
ATOM	4429	OH2 TIP S 415	-15.016	96.572	33.202	1.00	45.53	S	O
ATOM	4430	OH2 TIP S 416	39.377	75.743	32.551	1.00	30.17	S	O
ATOM	4431	OH2 TIP S 417	31.294	47.074	59.585	1.00	32.29	S	O
ATOM	4432	OH2 TIP S 418	20.908	99.085	60.072	1.00	33.84	S	O
ATOM	4433	OH2 TIP S 421	16.227	75.089	58.255	1.00	34.63	S	O
ATOM	4434	OH2 TIP S 423	9.515	68.766	41.162	1.00	31.09	S	O
ATOM	4435	OH2 TIP S 424	24.057	90.877	41.184	1.00	32.57	S	O
ATOM	4436	OH2 TIP S 425	-23.421	85.321	34.874	1.00	40.73	S	O
ATOM	4437	OH2 TIP S 426	-6.600	85.509	60.637	1.00	36.33	S	O
ATOM	4438	OH2 TIP S 429	18.068	74.274	39.152	1.00	28.30	S	O
ATOM	4439	OH2 TIP S 430	0.216	72.088	29.280	1.00	34.77	S	O
ATOM	4440	OH2 TIP S 431	24.237	97.970	52.510	1.00	40.38	S	O
ATOM	4441	OH2 TIP S 433	16.496	61.776	20.380	1.00	31.74	S	O
ATOM	4442	OH2 TIP S 434	23.656	81.140	23.402	1.00	39.14	S	O
ATOM	4443	OH2 TIP S 435	45.512	70.376	23.767	1.00	38.06	S	O
ATOM	4444	OH2 TIP S 436	5.133	69.622	42.446	1.00	33.04	S	O
ATOM	4445	OH2 TIP S 440	23.692	79.457	34.661	1.00	40.65	S	O
ATOM	4446	OH2 TIP S 443	15.889	73.328	39.832	1.00	29.37	S	O
ATOM	4447	OH2 TIP S 444	-8.745	70.532	28.410	1.00	33.62	S	O
ATOM	4448	OH2 TIP S 446	32.260	78.506	13.999	1.00	45.13	S	O
ATOM	4449	OH2 TIP S 448	39.242	48.079	43.803	1.00	33.38	S	O
ATOM	4450	OH2 TIP S 449	34.559	75.768	22.405	1.00	31.84	S	O
ATOM	4451	OH2 TIP S 450	17.344	71.627	57.656	1.00	30.16	S	O
ATOM	4452	OH2 TIP S 453	17.850	55.704	64.074	1.00	41.95	S	O
ATOM	4453	OH2 TIP S 454	12.673	87.630	65.105	1.00	36.77	S	O
ATOM	4454	OH2 TIP S 455	18.393	73.689	58.998	1.00	35.69	S	O
ATOM	4455	OH2 TIP S 457	31.350	80.284	54.849	1.00	32.98	S	O
ATOM	4456	OH2 TIP S 459	31.948	64.117	63.134	1.00	33.16	S	O
ATOM	4457	OH2 TIP S 461	25.883	44.584	58.922	1.00	26.81	S	O
ATOM	4458	OH2 TIP S 462	15.411	75.744	38.970	1.00	38.18	S	O
ATOM	4459	OH2 TIP S 465	-6.694	85.996	51.462	1.00	39.03	S	O
ATOM	4460	OH2 TIP S 467	22.428	74.991	56.119	1.00	48.69	S	O
ATOM	4461	OH2 TIP S 472	7.409	68.343	43.765	1.00	40.63	S	O
ATOM	4462	OH2 TIP S 477	3.696	81.760	15.765	1.00	41.18	S	O
ATOM	4463	OH2 TIP S 478	36.353	75.696	51.865	1.00	40.40	S	O
ATOM	4464	OH2 TIP S 479	45.063	73.009	39.613	1.00	30.28	S	O
ATOM	4465	OH2 TIP S 480	35.167	68.155	64.949	1.00	36.43	S	O
ATOM	4466	OH2 TIP S 481	16.895	81.810	19.179	1.00	26.87	S	O
ATOM	4467	OH2 TIP S 482	9.338	64.581	19.670	1.00	47.45	S	O
ATOM	4468	OH2 TIP S 486	-4.142	97.143	32.076	1.00	40.89	S	O
ATOM	4469	OH2 TIP S 492	8.626	110.626	48.140	1.00	38.81	S	O
ATOM	4470	OH2 TIP S 493	10.344	52.396	54.552	1.00	40.72	S	O
ATOM	4471	OH2 TIP S 504	-6.927	90.936	52.736	1.00	32.58	S	O
ATOM	4472	OH2 TIP S 506	25.842	56.111	26.259	1.00	44.04	S	O
ATOM	4473	OH2 TIP S 511	-18.765	81.021	30.433	1.00	43.07	S	O
ATOM	4474	OH2 TIP S 514	-10.951	95.897	30.634	1.00	35.08	S	O
ATOM	4475	OH2 TIP S 515	18.239	91.555	29.988	1.00	35.01	S	O
ATOM	4476	OH2 TIP S 518	11.487	71.453	37.559	1.00	30.35	S	O

Figure 6AAAA

ATOM	4477	OH2 TIP S 519	-5.621	94.181	63.866	1.00	38.29	S	O
ATOM	4478	OH2 TIP S 522	-22.715	82.630	39.313	1.00	37.68	S	O
ATOM	4479	OH2 TIP S 523	13.832	92.634	28.634	1.00	42.35	S	O
ATOM	4480	OH2 TIP S 526	38.684	51.235	34.304	1.00	47.63	S	O
ATOM	4481	OH2 TIP S 528	36.575	81.337	36.652	1.00	30.20	S	O
ATOM	4482	OH2 TIP S 529	19.003	94.626	60.449	1.00	33.39	S	O
ATOM	4483	OH2 TIP S 532	45.213	64.758	44.484	1.00	43.40	S	O
ATOM	4484	OH2 TIP S 548	27.913	76.880	61.466	1.00	39.53	S	O
ATOM	4485	OH2 TIP S 550	-7.794	83.071	55.228	1.00	36.58	S	O
ATOM	4486	OH2 TIP S 551	6.856	87.791	20.410	1.00	45.36	S	O
ATOM	4487	OH2 TIP S 553	20.954	56.587	35.076	1.00	46.06	S	O
ATOM	4488	OH2 TIP S 559	6.709	95.476	37.577	1.00	37.67	S	O
ATOM	4489	OH2 TIP S 561	-5.111	70.585	43.095	1.00	36.29	S	O
ATOM	4490	OH2 TIP S 563	33.592	49.188	39.439	1.00	38.90	S	O
ATOM	4491	OH2 TIP S 567	24.268	93.456	38.866	1.00	41.73	S	O
ATOM	4492	OH2 TIP S 568	38.145	71.373	18.079	1.00	45.93	S	O
ATOM	4493	OH2 TIP S 570	10.042	104.897	57.893	1.00	35.94	S	O
ATOM	4494	OH2 TIP S 579	2.980	71.667	46.083	1.00	31.08	S	O
ATOM	4495	OH2 TIP S 588	42.992	48.494	46.292	1.00	42.53	S	O
ATOM	4496	OH2 TIP S 592	7.979	101.256	62.776	1.00	43.56	S	O
ATOM	4497	OH2 TIP S 596	40.729	51.604	40.374	1.00	44.86	S	O
ATOM	4498	OH2 TIP S 608	22.066	82.819	34.739	1.00	44.19	S	O
ATOM	4499	OH2 TIP S 612	23.253	56.890	32.646	1.00	37.91	S	O
ATOM	4500	OH2 TIP S 613	-4.126	71.281	39.257	1.00	40.53	S	O
ATOM	4501	OH2 TIP S 640	21.624	103.517	40.110	1.00	37.27	S	O
ATOM	4502	OH2 TIP S 648	5.614	70.703	52.258	1.00	52.65	S	O
ATOM	4503	OH2 TIP S 650	43.903	58.744	50.765	1.00	33.40	S	O
ATOM	4504	OH2 TIP S 655	-8.816	78.637	48.006	1.00	40.13	S	O
ATOM	4505	OH2 TIP S 656	-5.358	78.170	23.376	1.00	32.77	S	O
ATOM	4506	OH2 TIP S 657	3.160	70.067	31.591	1.00	35.22	S	O
ATOM	4507	OH2 TIP S 658	25.185	73.553	62.291	1.00	39.81	S	O
END									

Figure 7A

REMARK Created by MOLEMAN V. 991230/7.3 at Tue Dec 10 19:34:52 2002 for kemiti
 REMARK MoleMan PDB file
 REMARK Created by MOLEMAN V. 961218/7.2.5 at Tue Mar 28 15:09:11 2000 for kemiti
 REMARK MoleMan PDB file.
 REMARK coordinates from restrained individual B-factor refinement
 REMARK refinement resolution: 500.0 - 1.86 Å
 REMARK starting $r = 0.2208$ free $r = 0.2457$
 REMARK final $r = 0.2055$ free $r = 0.2376$
 REMARK B rmsd for bonded mainchain atoms= 1.483 target= 1.5
 REMARK B rmsd for bonded sidechain atoms= 2.506 target= 2.0
 REMARK B rmsd for angle mainchain atoms= 2.042 target= 2.0
 REMARK B rmsd for angle sidechain atoms= 3.617 target= 2.5
 REMARK wa= 1.64705
 REMARK rweight=6.377507E-02
 REMARK target= mlf steps= 50
 REMARK sg= P2(1)2(1)2(1) a= 61.41 b= 76.31 c= 108.92 alpha= 90 beta= 90 gamma= 90
 REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
 REMARK parameter file 2 : MSI_CNX_TOPPAR:water_rep.param
 REMARK parameter file 3 : inh.par
 REMARK parameter file 4 : gld.par
 REMARK molecular structure file: generate_easy.psf
 REMARK input coordinates: bgroup.pdb
 REMARK reflection file= muri_1.8.cv
 REMARK ncs= none
 REMARK B-correction resolution: 6.0 - 1.86
 REMARK initial B-factor correction applied to fobs :
 REMARK B11= 0.497 B22= 1.667 B33= -2.164
 REMARK B12= 0.000 B13= 0.000 B23= 0.000
 REMARK B-factor correction applied to coordinate array B: 1.176
 REMARK bulk solvent: (Mask) density level= 0.365438 e/Å³, B-factor= 33.2255 Å²
 REMARK reflections with $|F_{obs}|/\sigma_F < 0.0$ rejected
 REMARK reflections with $|F_{obs}| > 10000 * rms(F_{obs})$ rejected
 REMARK theoretical total number of refl. in resol. range: 43743 (100.0 %)
 REMARK number of unobserved reflections (no entry or $|F|=0$): 3410 (7.8 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 40333 (92.2 %)
 REMARK number of reflections in working set: 38313 (87.6 %)
 REMARK number of reflections in test set: 2020 (4.6 %)
 REMARK FILENAME="bindividual.pdb"
 REMARK DATE:Mar-24-2000 16:16:02 created by user: kemiti
 REMARK Written by CNX VERSION:2000
 CRYST1 61.410 76.310 108.920 90.00 90.00 90.00 P212121 1
 ORIGX1 1.000000 0.000000 0.000000 0.000000
 ORIGX2 0.000000 1.000000 0.000000 0.000000
 ORIGX3 0.000000 0.000000 1.000000 0.000000
 SCALE1 0.016284 0.000000 0.000000 0.000000
 SCALE2 0.000000 0.013104 0.000000 0.000000
 SCALE3 0.000000 0.000000 0.009181 0.000000
 ATOM 1 CB MET A 1 30.124 48.907 56.585 1.00 22.42 A C
 ATOM 2 CG MET A 1 30.702 50.302 56.333 1.00 25.22 A C
 ATOM 3 SD MET A 1 31.489 51.055 57.785 1.00 28.98 A S
 ATOM 4 CE MET A 1 32.951 49.983 58.010 1.00 26.14 A C
 ATOM 5 C MET A 1 27.890 49.690 57.412 1.00 19.35 A C
 ATOM 6 O MET A 1 27.114 49.386 56.503 1.00 20.53 A O
 ATOM 7 N MET A 1 28.658 47.421 57.925 1.00 18.28 A N
 ATOM 8 CA MET A 1 29.106 48.829 57.729 1.00 20.61 A C
 ATOM 9 N LYS A 2 27.729 50.760 58.178 1.00 18.84 A N
 ATOM 10 CA LYS A 2 26.605 51.666 58.005 1.00 19.29 A C

Figure 7B

ATOM	11	CB	LYS	A	2	25.834	51.769	59.316	1.00	18.82	A	C
ATOM	12	CG	LYS	A	2	24.636	52.702	59.295	1.00	20.09	A	C
ATOM	13	CD	LYS	A	2	24.005	52.752	60.674	1.00	22.85	A	C
ATOM	14	CE	LYS	A	2	22.697	53.523	60.676	1.00	22.98	A	C
ATOM	15	NZ	LYS	A	2	22.078	53.501	62.033	1.00	22.51	A	N
ATOM	16	C	LYS	A	2	27.131	53.031	57.588	1.00	17.25	A	C
ATOM	17	O	LYS	A	2	27.980	53.616	58.265	1.00	16.44	A	O
ATOM	18	N	ILE	A	3	26.630	53.533	56.464	1.00	17.70	A	N
ATOM	19	CA	ILE	A	3	27.075	54.824	55.968	1.00	14.65	A	C
ATOM	20	CB	ILE	A	3	28.001	54.647	54.738	1.00	16.82	A	C
ATOM	21	CG2	ILE	A	3	29.214	53.807	55.121	1.00	17.12	A	C
ATOM	22	CG1	ILE	A	3	27.252	53.971	53.593	1.00	17.27	A	C
ATOM	23	CD1	ILE	A	3	26.697	54.929	52.583	1.00	20.09	A	C
ATOM	24	C	ILE	A	3	25.925	55.758	55.617	1.00	14.64	A	C
ATOM	25	O	ILE	A	3	24.752	55.377	55.639	1.00	14.39	A	O
ATOM	26	N	GLY	A	4	26.269	57.001	55.322	1.00	13.89	A	N
ATOM	27	CA	GLY	A	4	25.244	57.956	54.961	1.00	14.96	A	C
ATOM	28	C	GLY	A	4	25.500	58.490	53.569	1.00	13.26	A	C
ATOM	29	O	GLY	A	4	26.634	58.453	53.081	1.00	11.89	A	O
ATOM	30	N	VAL	A	5	24.439	58.954	52.917	1.00	11.22	A	N
ATOM	31	CA	VAL	A	5	24.549	59.541	51.592	1.00	10.79	A	C
ATOM	32	CB	VAL	A	5	23.964	58.625	50.500	1.00	14.07	A	C
ATOM	33	CG1	VAL	A	5	23.918	59.363	49.169	1.00	12.77	A	C
ATOM	34	CG2	VAL	A	5	24.828	57.385	50.352	1.00	12.02	A	C
ATOM	35	C	VAL	A	5	23.771	60.848	51.643	1.00	11.63	A	C
ATOM	36	O	VAL	A	5	22.596	60.872	52.020	1.00	12.22	A	O
ATOM	37	N	PHE	A	6	24.445	61.932	51.287	1.00	11.51	A	N
ATOM	38	CA	PHE	A	6	23.848	63.256	51.302	1.00	13.29	A	C
ATOM	39	CB	PHE	A	6	24.674	64.182	52.203	1.00	13.43	A	C
ATOM	40	CG	PHE	A	6	24.252	65.620	52.143	1.00	14.85	A	C
ATOM	41	CD1	PHE	A	6	22.937	65.981	52.418	1.00	16.29	A	C
ATOM	42	CD2	PHE	A	6	25.164	66.612	51.800	1.00	15.26	A	C
ATOM	43	CE1	PHE	A	6	22.530	67.317	52.350	1.00	17.43	A	C
ATOM	44	CE2	PHE	A	6	24.770	67.954	51.728	1.00	17.55	A	C
ATOM	45	CZ	PHE	A	6	23.450	68.305	52.003	1.00	18.07	A	C
ATOM	46	C	PHE	A	6	23.725	63.887	49.920	1.00	12.87	A	C
ATOM	47	O	PHE	A	6	24.641	63.806	49.102	1.00	14.09	A	O
ATOM	48	N	ASP	A	7	22.583	64.519	49.674	1.00	11.45	A	N
ATOM	49	CA	ASP	A	7	22.331	65.212	48.418	1.00	12.53	A	C
ATOM	50	CB	ASP	A	7	21.749	64.263	47.363	1.00	11.52	A	C
ATOM	51	CG	ASP	A	7	21.491	64.959	46.035	1.00	10.71	A	C
ATOM	52	OD1	ASP	A	7	22.444	65.525	45.457	1.00	12.13	A	O
ATOM	53	OD2	ASP	A	7	20.332	64.944	45.571	1.00	11.62	A	O
ATOM	54	C	ASP	A	7	21.353	66.350	48.670	1.00	10.34	A	C
ATOM	55	O	ASP	A	7	20.714	66.410	49.716	1.00	12.06	A	O
ATOM	56	N	SER	A	8	21.245	67.262	47.713	1.00	12.07	A	N
ATOM	57	CA	SER	A	8	20.330	68.387	47.856	1.00	12.93	A	C
ATOM	58	CB	SER	A	8	20.595	69.417	46.756	1.00	12.10	A	C
ATOM	59	OG	SER	A	8	20.364	68.857	45.474	1.00	10.24	A	O
ATOM	60	C	SER	A	8	18.874	67.909	47.783	1.00	13.34	A	C
ATOM	61	O	SER	A	8	17.957	68.609	48.217	1.00	14.16	A	O
ATOM	62	N	GLY	A	9	18.667	66.709	47.250	1.00	13.06	A	N
ATOM	63	CA	GLY	A	9	17.319	66.182	47.143	1.00	12.56	A	C
ATOM	64	C	GLY	A	9	17.253	64.728	46.721	1.00	13.45	A	C
ATOM	65	O	GLY	A	9	17.886	63.861	47.329	1.00	13.56	A	O
ATOM	66	N	VAL	A	10	16.484	64.460	45.671	1.00	12.87	A	N
ATOM	67	CA	VAL	A	10	16.323	63.104	45.159	1.00	12.62	A	C
ATOM	68	CB	VAL	A	10	14.916	62.935	44.552	1.00	12.47	A	C

Figure 7C

ATOM	69	CG1 VAL A 10	14.715	63.955	43.453	1.00	11.29	A	C
ATOM	70	CG2 VAL A 10	14.720	61.521	44.031	1.00	12.71	A	C
ATOM	71	C VAL A 10	17.372	62.785	44.095	1.00	12.55	A	C
ATOM	72	O VAL A 10	17.586	61.624	43.749	1.00	11.19	A	O
ATOM	73	N GLY A 11	18.020	63.823	43.575	1.00	12.78	A	N
ATOM	74	CA GLY A 11	19.032	63.623	42.548	1.00	10.57	A	C
ATOM	75	C GLY A 11	20.039	62.536	42.884	1.00	12.63	A	C
ATOM	76	O GLY A 11	20.376	61.696	42.035	1.00	12.33	A	O
ATOM	77	N GLY A 12	20.514	62.560	44.126	1.00	12.27	A	N
ATOM	78	CA GLY A 12	21.488	61.589	44.597	1.00	13.34	A	C
ATOM	79	C GLY A 12	21.125	60.142	44.331	1.00	12.55	A	C
ATOM	80	O GLY A 12	21.963	59.252	44.496	1.00	12.07	A	O
ATOM	81	N PHE A 13	19.877	59.894	43.938	1.00	11.81	A	N
ATOM	82	CA PHE A 13	19.447	58.534	43.619	1.00	12.39	A	C
ATOM	83	CB PHE A 13	18.009	58.515	43.081	1.00	13.67	A	C
ATOM	84	CG PHE A 13	16.947	58.401	44.148	1.00	13.33	A	C
ATOM	85	CD1 PHE A 13	15.671	57.955	43.816	1.00	14.75	A	C
ATOM	86	CD2 PHE A 13	17.215	58.740	45.470	1.00	13.91	A	C
ATOM	87	CE1 PHE A 13	14.667	57.846	44.790	1.00	18.10	A	C
ATOM	88	CE2 PHE A 13	16.221	58.635	46.454	1.00	15.28	A	C
ATOM	89	CZ PHE A 13	14.943	58.186	46.112	1.00	13.91	A	C
ATOM	90	C PHE A 13	20.361	57.940	42.547	1.00	13.92	A	C
ATOM	91	O PHE A 13	20.630	56.737	42.551	1.00	12.12	A	O
ATOM	92	N SER A 14	20.827	58.781	41.625	1.00	13.26	A	N
ATOM	93	CA SER A 14	21.690	58.304	40.547	1.00	13.42	A	C
ATOM	94	CB SER A 14	21.967	59.423	39.525	1.00	13.96	A	C
ATOM	95	OG SER A 14	22.695	60.504	40.071	1.00	12.20	A	O
ATOM	96	C SER A 14	22.992	57.730	41.092	1.00	13.28	A	C
ATOM	97	O SER A 14	23.559	56.805	40.509	1.00	14.54	A	O
ATOM	98	N VAL A 15	23.458	58.270	42.214	1.00	10.88	A	N
ATOM	99	CA VAL A 15	24.674	57.777	42.846	1.00	11.83	A	C
ATOM	100	CB VAL A 15	25.338	58.859	43.730	1.00	11.43	A	C
ATOM	101	CG1 VAL A 15	26.452	58.243	44.580	1.00	10.44	A	C
ATOM	102	CG2 VAL A 15	25.909	59.960	42.849	1.00	11.65	A	C
ATOM	103	C VAL A 15	24.333	56.566	43.709	1.00	13.82	A	C
ATOM	104	O VAL A 15	25.068	55.579	43.727	1.00	13.72	A	O
ATOM	105	N LEU A 16	23.199	56.635	44.400	1.00	13.39	A	N
ATOM	106	CA LEU A 16	22.767	55.546	45.264	1.00	14.00	A	C
ATOM	107	CB LEU A 16	21.479	55.937	45.993	1.00	11.47	A	C
ATOM	108	CG LEU A 16	20.947	54.898	46.991	1.00	14.59	A	C
ATOM	109	CD1 LEU A 16	22.049	54.511	47.980	1.00	13.56	A	C
ATOM	110	CD2 LEU A 16	19.743	55.477	47.733	1.00	10.24	A	C
ATOM	111	C LEU A 16	22.562	54.246	44.486	1.00	14.34	A	C
ATOM	112	O LEU A 16	22.879	53.162	44.980	1.00	13.30	A	O
ATOM	113	N LYS A 17	22.044	54.356	43.267	1.00	14.05	A	N
ATOM	114	CA LYS A 17	21.822	53.176	42.438	1.00	16.52	A	C
ATOM	115	CB LYS A 17	21.229	53.584	41.087	1.00	16.99	A	C
ATOM	116	CG LYS A 17	21.051	52.424	40.114	1.00	21.73	A	C
ATOM	117	CD LYS A 17	20.461	52.893	38.802	1.00	24.05	A	C
ATOM	118	CE LYS A 17	20.298	51.729	37.833	1.00	27.52	A	C
ATOM	119	NZ LYS A 17	19.805	52.178	36.505	1.00	24.97	A	N
ATOM	120	C LYS A 17	23.136	52.423	42.220	1.00	17.90	A	C
ATOM	121	O LYS A 17	23.194	51.193	42.319	1.00	16.07	A	O
ATOM	122	N SER A 18	24.193	53.171	41.931	1.00	16.04	A	N
ATOM	123	CA SER A 18	25.508	52.582	41.691	1.00	17.22	A	C
ATOM	124	CB SER A 18	26.494	53.663	41.248	1.00	16.33	A	C
ATOM	125	OG SER A 18	26.080	54.255	40.034	1.00	15.13	A	O
ATOM	126	C SER A 18	26.033	51.900	42.944	1.00	16.33	A	C

Figure 7D

ATOM	127	O	SER A 18	26.579	50.795	42.885	1.00	14.32	A	O
ATOM	128	N	LEU A 19	25.863	52.577	44.075	1.00	13.38	A	N
ATOM	129	CA	LEU A 19	26.301	52.072	45.367	1.00	14.03	A	C
ATOM	130	CB	LEU A 19	26.009	53.102	46.456	1.00	11.70	A	C
ATOM	131	CG	LEU A 19	26.748	54.435	46.350	1.00	12.66	A	C
ATOM	132	CD1	LEU A 19	26.284	55.365	47.471	1.00	13.24	A	C
ATOM	133	CD2	LEU A 19	28.248	54.185	46.442	1.00	11.34	A	C
ATOM	134	C	LEU A 19	25.605	50.771	45.720	1.00	15.80	A	C
ATOM	135	O	LEU A 19	26.240	49.831	46.195	1.00	14.57	A	O
ATOM	136	N	LEU A 20	24.294	50.727	45.496	1.00	15.82	A	N
ATOM	137	CA	LEU A 20	23.510	49.540	45.793	1.00	18.19	A	C
ATOM	138	CB	LEU A 20	22.026	49.807	45.515	1.00	16.40	A	C
ATOM	139	CG	LEU A 20	21.346	50.798	46.473	1.00	16.62	A	C
ATOM	140	CD1	LEU A 20	19.949	51.156	45.974	1.00	16.53	A	C
ATOM	141	CD2	LEU A 20	21.279	50.176	47.867	1.00	16.65	A	C
ATOM	142	C	LEU A 20	23.983	48.330	44.988	1.00	20.92	A	C
ATOM	143	O	LEU A 20	24.179	47.247	45.538	1.00	20.94	A	O
ATOM	144	N	LYS A 21	24.169	48.511	43.687	1.00	20.60	A	N
ATOM	145	CA	LYS A 21	24.612	47.406	42.847	1.00	22.68	A	C
ATOM	146	CB	LYS A 21	24.656	47.840	41.380	1.00	21.65	A	C
ATOM	147	CG	LYS A 21	24.973	46.699	40.426	1.00	26.15	A	C
ATOM	148	CD	LYS A 21	25.083	47.169	38.988	1.00	29.67	A	C
ATOM	149	CE	LYS A 21	25.506	46.017	38.078	1.00	34.31	A	C
ATOM	150	NZ	LYS A 21	25.776	46.469	36.684	1.00	32.80	A	N
ATOM	151	C	LYS A 21	25.978	46.863	43.263	1.00	21.58	A	C
ATOM	152	O	LYS A 21	26.214	45.654	43.208	1.00	23.12	A	O
ATOM	153	N	ALA A 22	26.868	47.753	43.692	1.00	19.68	A	N
ATOM	154	CA	ALA A 22	28.216	47.360	44.093	1.00	19.96	A	C
ATOM	155	CB	ALA A 22	29.131	48.585	44.080	1.00	14.81	A	C
ATOM	156	C	ALA A 22	28.317	46.635	45.446	1.00	20.35	A	C
ATOM	157	O	ALA A 22	29.402	46.199	45.839	1.00	21.92	A	O
ATOM	158	N	ARG A 23	27.198	46.509	46.154	1.00	20.50	A	N
ATOM	159	CA	ARG A 23	27.187	45.821	47.444	1.00	21.19	A	C
ATOM	160	CB	ARG A 23	27.205	44.307	47.230	1.00	23.64	A	C
ATOM	161	CG	ARG A 23	25.965	43.756	46.553	1.00	24.47	A	C
ATOM	162	CD	ARG A 23	26.093	42.252	46.372	1.00	30.28	A	C
ATOM	163	NE	ARG A 23	26.418	41.582	47.630	1.00	30.56	A	N
ATOM	164	CZ	ARG A 23	26.768	40.302	47.727	1.00	32.70	A	C
ATOM	165	NH1	ARG A 23	26.838	39.549	46.636	1.00	32.50	A	N
ATOM	166	NH2	ARG A 23	27.054	39.776	48.914	1.00	28.66	A	N
ATOM	167	C	ARG A 23	28.379	46.216	48.302	1.00	21.73	A	C
ATOM	168	O	ARG A 23	29.149	45.365	48.759	1.00	20.27	A	O
ATOM	169	N	LEU A 24	28.522	47.512	48.527	1.00	17.52	A	N
ATOM	170	CA	LEU A 24	29.624	48.018	49.317	1.00	21.03	A	C
ATOM	171	CB	LEU A 24	30.080	49.366	48.757	1.00	20.25	A	C
ATOM	172	CG	LEU A 24	30.478	49.366	47.282	1.00	22.97	A	C
ATOM	173	CD1	LEU A 24	30.723	50.797	46.810	1.00	22.12	A	C
ATOM	174	CD2	LEU A 24	31.723	48.510	47.094	1.00	21.35	A	C
ATOM	175	C	LEU A 24	29.239	48.184	50.776	1.00	21.90	A	C
ATOM	176	O	LEU A 24	30.079	48.032	51.663	1.00	23.97	A	O
ATOM	177	N	PHE A 25	27.968	48.483	51.028	1.00	20.73	A	N
ATOM	178	CA	PHE A 25	27.517	48.710	52.396	1.00	21.16	A	C
ATOM	179	CB	PHE A 25	27.290	50.207	52.609	1.00	19.75	A	C
ATOM	180	CG	PHE A 25	28.416	51.062	52.101	1.00	19.70	A	C
ATOM	181	CD1	PHE A 25	28.249	51.854	50.967	1.00	20.65	A	C
ATOM	182	CD2	PHE A 25	29.648	51.065	52.748	1.00	19.59	A	C
ATOM	183	CE1	PHE A 25	29.294	52.641	50.483	1.00	20.02	A	C
ATOM	184	CE2	PHE A 25	30.701	51.846	52.276	1.00	20.92	A	C

Figure 7E

ATOM	185	CZ	PHE	A	25	30.522	52.639	51.137	1.00	19.72	A	C
ATOM	186	C	PHE	A	25	26.259	47.940	52.773	1.00	18.19	A	C
ATOM	187	O	PHE	A	25	25.387	47.718	51.945	1.00	20.08	A	O
ATOM	188	N	ASP	A	26	26.174	47.562	54.044	1.00	19.15	A	N
ATOM	189	CA	ASP	A	26	25.049	46.793	54.569	1.00	19.40	A	C
ATOM	190	CB	ASP	A	26	25.524	45.978	55.768	1.00	21.39	A	C
ATOM	191	CG	ASP	A	26	26.764	45.166	55.455	1.00	23.64	A	C
ATOM	192	OD1	ASP	A	26	26.632	44.118	54.794	1.00	23.32	A	O
ATOM	193	OD2	ASP	A	26	27.875	45.587	55.852	1.00	28.55	A	O
ATOM	194	C	ASP	A	26	23.864	47.662	54.978	1.00	18.82	A	C
ATOM	195	O	ASP	A	26	22.727	47.196	55.034	1.00	19.35	A	O
ATOM	196	N	GLU	A	27	24.132	48.926	55.273	1.00	17.90	A	N
ATOM	197	CA	GLU	A	27	23.067	49.840	55.671	1.00	17.07	A	C
ATOM	198	CB	GLU	A	27	22.892	49.826	57.187	1.00	17.71	A	C
ATOM	199	CG	GLU	A	27	21.646	50.550	57.663	1.00	24.75	A	C
ATOM	200	CD	GLU	A	27	21.322	50.279	59.127	1.00	28.18	A	C
ATOM	201	OE1	GLU	A	27	20.326	50.846	59.620	1.00	31.23	A	O
ATOM	202	OE2	GLU	A	27	22.054	49.500	59.782	1.00	27.47	A	O
ATOM	203	C	GLU	A	27	23.393	51.246	55.197	1.00	16.15	A	C
ATOM	204	O	GLU	A	27	24.524	51.723	55.346	1.00	14.85	A	O
ATOM	205	N	ILE	A	28	22.393	51.910	54.633	1.00	14.40	A	N
ATOM	206	CA	ILE	A	28	22.577	53.257	54.118	1.00	12.75	A	C
ATOM	207	CB	ILE	A	28	22.574	53.257	52.582	1.00	13.36	A	C
ATOM	208	CG2	ILE	A	28	22.678	54.689	52.056	1.00	9.46	A	C
ATOM	209	CG1	ILE	A	28	23.736	52.409	52.059	1.00	12.29	A	C
ATOM	210	CD1	ILE	A	28	23.699	52.211	50.552	1.00	16.70	A	C
ATOM	211	C	ILE	A	28	21.477	54.193	54.592	1.00	13.60	A	C
ATOM	212	O	ILE	A	28	20.296	53.854	54.545	1.00	13.62	A	O
ATOM	213	N	ILE	A	29	21.879	55.367	55.059	1.00	12.74	A	N
ATOM	214	CA	ILE	A	29	20.928	56.375	55.507	1.00	14.14	A	C
ATOM	215	CB	ILE	A	29	21.293	56.944	56.893	1.00	13.73	A	C
ATOM	216	CG2	ILE	A	29	20.241	57.957	57.324	1.00	15.30	A	C
ATOM	217	CG1	ILE	A	29	21.398	55.814	57.929	1.00	15.05	A	C
ATOM	218	CD1	ILE	A	29	20.107	55.035	58.145	1.00	14.22	A	C
ATOM	219	C	ILE	A	29	21.039	57.489	54.472	1.00	14.66	A	C
ATOM	220	O	ILE	A	29	22.056	58.183	54.404	1.00	13.06	A	O
ATOM	221	N	TYR	A	30	20.007	57.629	53.648	1.00	12.88	A	N
ATOM	222	CA	TYR	A	30	19.987	58.649	52.609	1.00	14.23	A	C
ATOM	223	CB	TYR	A	30	19.221	58.133	51.389	1.00	12.46	A	C
ATOM	224	CG	TYR	A	30	19.221	59.075	50.205	1.00	15.02	A	C
ATOM	225	CD1	TYR	A	30	20.155	58.933	49.178	1.00	12.86	A	C
ATOM	226	CE1	TYR	A	30	20.171	59.803	48.088	1.00	12.85	A	C
ATOM	227	CD2	TYR	A	30	18.298	60.119	50.117	1.00	15.96	A	C
ATOM	228	CE2	TYR	A	30	18.304	60.996	49.034	1.00	15.05	A	C
ATOM	229	CZ	TYR	A	30	19.243	60.831	48.023	1.00	14.12	A	C
ATOM	230	OH	TYR	A	30	19.248	61.681	46.948	1.00	11.65	A	O
ATOM	231	C	TYR	A	30	19.293	59.902	53.139	1.00	15.46	A	C
ATOM	232	O	TYR	A	30	18.211	59.815	53.725	1.00	14.07	A	O
ATOM	233	N	TYR	A	31	19.909	61.062	52.934	1.00	14.03	A	N
ATOM	234	CA	TYR	A	31	19.297	62.312	53.370	1.00	14.37	A	C
ATOM	235	CB	TYR	A	31	20.007	62.882	54.601	1.00	13.42	A	C
ATOM	236	CG	TYR	A	31	19.441	64.216	55.045	1.00	13.73	A	C
ATOM	237	CD1	TYR	A	31	18.150	64.307	55.559	1.00	15.42	A	C
ATOM	238	CE1	TYR	A	31	17.616	65.532	55.962	1.00	18.80	A	C
ATOM	239	CD2	TYR	A	31	20.191	65.389	54.940	1.00	15.22	A	C
ATOM	240	CE2	TYR	A	31	19.665	66.625	55.335	1.00	19.27	A	C
ATOM	241	CZ	TYR	A	31	18.376	66.686	55.847	1.00	20.56	A	C
ATOM	242	OH	TYR	A	31	17.840	67.894	56.250	1.00	21.50	A	O

Figure 7F

ATOM	243	C	TYR A 31	19.321	63.355	52.257	1.00	13.94	A	C
ATOM	244	O	TYR A 31	20.383	63.704	51.743	1.00	12.53	A	O
ATOM	245	N	GLY A 32	18.139	63.836	51.876	1.00	14.52	A	N
ATOM	246	CA	GLY A 32	18.052	64.855	50.846	1.00	11.09	A	C
ATOM	247	C	GLY A 32	17.502	66.137	51.445	1.00	14.21	A	C
ATOM	248	O	GLY A 32	16.474	66.105	52.120	1.00	13.16	A	O
ATOM	249	N	ASP A 33	18.178	67.261	51.217	1.00	11.82	A	N
ATOM	250	CA	ASP A 33	17.728	68.550	51.754	1.00	12.90	A	C
ATOM	251	CB	ASP A 33	18.934	69.474	51.926	1.00	11.25	A	C
ATOM	252	CG	ASP A 33	18.576	70.788	52.587	1.00	11.81	A	C
ATOM	253	OD1	ASP A 33	17.562	70.842	53.309	1.00	14.26	A	O
ATOM	254	OD2	ASP A 33	19.326	71.757	52.394	1.00	11.68	A	O
ATOM	255	C	ASP A 33	16.703	69.145	50.783	1.00	13.65	A	C
ATOM	256	O	ASP A 33	16.824	70.285	50.324	1.00	12.95	A	O
ATOM	257	N	SER A 34	15.693	68.333	50.486	1.00	13.72	A	N
ATOM	258	CA	SER A 34	14.630	68.658	49.543	1.00	14.78	A	C
ATOM	259	CB	SER A 34	13.602	67.527	49.539	1.00	13.92	A	C
ATOM	260	OG	SER A 34	14.230	66.294	49.232	1.00	21.22	A	O
ATOM	261	C	SER A 34	13.914	69.980	49.751	1.00	16.62	A	C
ATOM	262	O	SER A 34	13.379	70.554	48.799	1.00	14.31	A	O
ATOM	263	N	ALA A 35	13.889	70.461	50.990	1.00	13.83	A	N
ATOM	264	CA	ALA A 35	13.216	71.717	51.282	1.00	14.72	A	C
ATOM	265	CB	ALA A 35	13.037	71.875	52.790	1.00	12.61	A	C
ATOM	266	C	ALA A 35	13.982	72.908	50.717	1.00	15.06	A	C
ATOM	267	O	ALA A 35	13.417	73.989	50.538	1.00	17.76	A	O
ATOM	268	N	ARG A 36	15.262	72.713	50.420	1.00	15.20	A	N
ATOM	269	CA	ARG A 36	16.076	73.804	49.902	1.00	15.09	A	C
ATOM	270	CB	ARG A 36	17.175	74.128	50.918	1.00	14.65	A	C
ATOM	271	CG	ARG A 36	16.585	74.462	52.284	1.00	13.95	A	C
ATOM	272	CD	ARG A 36	17.602	75.018	53.255	1.00	15.98	A	C
ATOM	273	NE	ARG A 36	18.579	74.020	53.681	1.00	14.55	A	N
ATOM	274	CZ	ARG A 36	19.333	74.141	54.769	1.00	19.35	A	C
ATOM	275	NH1	ARG A 36	19.217	75.221	55.537	1.00	16.64	A	N
ATOM	276	NH2	ARG A 36	20.201	73.187	55.093	1.00	16.02	A	N
ATOM	277	C	ARG A 36	16.668	73.578	48.511	1.00	15.81	A	C
ATOM	278	O	ARG A 36	17.422	74.409	48.002	1.00	15.67	A	O
ATOM	279	N	VAL A 37	16.319	72.461	47.888	1.00	15.48	A	N
ATOM	280	CA	VAL A 37	16.821	72.168	46.552	1.00	13.76	A	C
ATOM	281	CB	VAL A 37	16.374	70.746	46.115	1.00	14.93	A	C
ATOM	282	CG1	VAL A 37	14.877	70.727	45.851	1.00	14.99	A	C
ATOM	283	CG2	VAL A 37	17.174	70.280	44.898	1.00	14.00	A	C
ATOM	284	C	VAL A 37	16.246	73.243	45.617	1.00	11.66	A	C
ATOM	285	O	VAL A 37	15.112	73.697	45.805	1.00	11.22	A	O
ATOM	286	N	PRO A 38	17.011	73.662	44.596	1.00	12.05	A	N
ATOM	287	CD	PRO A 38	16.485	74.565	43.553	1.00	12.17	A	C
ATOM	288	CA	PRO A 38	18.356	73.214	44.244	1.00	13.67	A	C
ATOM	289	CB	PRO A 38	18.368	73.384	42.736	1.00	14.66	A	C
ATOM	290	CG	PRO A 38	17.655	74.698	42.588	1.00	12.08	A	C
ATOM	291	C	PRO A 38	19.486	74.000	44.898	1.00	15.15	A	C
ATOM	292	O	PRO A 38	19.297	75.129	45.370	1.00	12.96	A	O
ATOM	293	N	TYR A 39	20.664	73.382	44.900	1.00	11.07	A	N
ATOM	294	CA	TYR A 39	21.885	73.974	45.442	1.00	13.74	A	C
ATOM	295	CB	TYR A 39	22.796	72.893	46.040	1.00	11.65	A	C
ATOM	296	CG	TYR A 39	22.461	72.394	47.428	1.00	12.17	A	C
ATOM	297	CD1	TYR A 39	21.229	72.663	48.031	1.00	13.42	A	C
ATOM	298	CE1	TYR A 39	20.932	72.177	49.312	1.00	12.82	A	C
ATOM	299	CD2	TYR A 39	23.387	71.625	48.137	1.00	14.92	A	C
ATOM	300	CE2	TYR A 39	23.103	71.137	49.406	1.00	15.33	A	C

Figure 7G

ATOM	301	CZ	TYR	A	39	21.878	71.414	49.992	1.00	13.34	A	C
ATOM	302	OH	TYR	A	39	21.624	70.941	51.260	1.00	13.24	A	O
ATOM	303	C	TYR	A	39	22.654	74.640	44.300	1.00	11.74	A	C
ATOM	304	O	TYR	A	39	23.323	75.652	44.494	1.00	14.92	A	O
ATOM	305	N	GLY	A	40	22.551	74.049	43.112	1.00	14.63	A	N
ATOM	306	CA	GLY	A	40	23.269	74.529	41.939	1.00	12.47	A	C
ATOM	307	C	GLY	A	40	23.196	75.993	41.544	1.00	14.09	A	C
ATOM	308	O	GLY	A	40	24.093	76.502	40.871	1.00	12.63	A	O
ATOM	309	N	THR	A	41	22.141	76.683	41.952	1.00	13.06	A	N
ATOM	310	CA	THR	A	41	22.001	78.086	41.585	1.00	17.35	A	C
ATOM	311	CB	THR	A	41	20.552	78.400	41.219	1.00	18.12	A	C
ATOM	312	OG1	THR	A	41	19.713	78.078	42.332	1.00	22.00	A	O
ATOM	313	CG2	THR	A	41	20.115	77.580	40.009	1.00	22.83	A	C
ATOM	314	C	THR	A	41	22.416	79.020	42.712	1.00	16.33	A	C
ATOM	315	O	THR	A	41	22.266	80.240	42.600	1.00	17.71	A	O
ATOM	316	N	LYS	A	42	22.953	78.460	43.787	1.00	14.75	A	N
ATOM	317	CA	LYS	A	42	23.331	79.281	44.922	1.00	13.75	A	C
ATOM	318	CB	LYS	A	42	22.653	78.721	46.174	1.00	14.86	A	C
ATOM	319	CG	LYS	A	42	21.139	78.899	46.078	1.00	14.53	A	C
ATOM	320	CD	LYS	A	42	20.342	77.857	46.842	1.00	14.88	A	C
ATOM	321	CE	LYS	A	42	18.898	77.878	46.349	1.00	13.95	A	C
ATOM	322	NZ	LYS	A	42	17.995	76.929	47.073	1.00	12.60	A	N
ATOM	323	C	LYS	A	42	24.824	79.496	45.119	1.00	16.57	A	C
ATOM	324	O	LYS	A	42	25.647	78.943	44.391	1.00	14.82	A	O
ATOM	325	N	ASP	A	43	25.157	80.329	46.099	1.00	17.21	A	N
ATOM	326	CA	ASP	A	43	26.539	80.689	46.390	1.00	19.06	A	C
ATOM	327	CB	ASP	A	43	26.567	82.117	46.932	1.00	20.48	A	C
ATOM	328	CG	ASP	A	43	25.808	82.245	48.228	1.00	21.34	A	C
ATOM	329	OD1	ASP	A	43	26.458	82.356	49.287	1.00	19.30	A	O
ATOM	330	OD2	ASP	A	43	24.557	82.210	48.190	1.00	23.52	A	O
ATOM	331	C	ASP	A	43	27.260	79.763	47.371	1.00	19.43	A	C
ATOM	332	O	ASP	A	43	26.634	79.034	48.141	1.00	18.30	A	O
ATOM	333	N	PRO	A	44	28.604	79.789	47.346	1.00	21.23	A	N
ATOM	334	CD	PRO	A	44	29.401	80.567	46.377	1.00	20.65	A	C
ATOM	335	CA	PRO	A	44	29.482	78.984	48.202	1.00	20.54	A	C
ATOM	336	CB	PRO	A	44	30.866	79.543	47.886	1.00	20.91	A	C
ATOM	337	CG	PRO	A	44	30.749	79.881	46.440	1.00	20.03	A	C
ATOM	338	C	PRO	A	44	29.165	79.051	49.691	1.00	21.08	A	C
ATOM	339	O	PRO	A	44	29.078	78.020	50.362	1.00	22.03	A	O
ATOM	340	N	THR	A	45	28.999	80.266	50.207	1.00	20.06	A	N
ATOM	341	CA	THR	A	45	28.707	80.453	51.622	1.00	19.83	A	C
ATOM	342	CB	THR	A	45	28.523	81.953	51.961	1.00	22.19	A	C
ATOM	343	OG1	THR	A	45	29.734	82.659	51.667	1.00	22.93	A	O
ATOM	344	CG2	THR	A	45	28.180	82.135	53.429	1.00	21.29	A	C
ATOM	345	C	THR	A	45	27.453	79.697	52.027	1.00	18.90	A	C
ATOM	346	O	THR	A	45	27.448	78.950	53.007	1.00	16.82	A	O
ATOM	347	N	THR	A	46	26.386	79.893	51.263	1.00	17.42	A	N
ATOM	348	CA	THR	A	46	25.125	79.235	51.546	1.00	17.81	A	C
ATOM	349	CB	THR	A	46	24.039	79.671	50.542	1.00	16.98	A	C
ATOM	350	OG1	THR	A	46	23.835	81.087	50.636	1.00	17.53	A	O
ATOM	351	CG2	THR	A	46	22.737	78.971	50.839	1.00	19.05	A	C
ATOM	352	C	THR	A	46	25.265	77.719	51.484	1.00	17.51	A	C
ATOM	353	O	THR	A	46	24.766	77.004	52.355	1.00	18.78	A	O
ATOM	354	N	ILE	A	47	25.945	77.236	50.452	1.00	17.91	A	N
ATOM	355	CA	ILE	A	47	26.134	75.803	50.265	1.00	20.81	A	C
ATOM	356	CB	ILE	A	47	26.822	75.513	48.912	1.00	20.52	A	C
ATOM	357	CG2	ILE	A	47	26.934	74.002	48.678	1.00	18.34	A	C
ATOM	358	CG1	ILE	A	47	26.004	76.143	47.783	1.00	23.35	A	C

Figure 7H

ATOM	359	CD1 ILE A 47	24.523	75.792	47.826	1.00	23.82	A	C
ATOM	360	C ILE A 47	26.935	75.170	51.398	1.00	19.27	A	C
ATOM	361	O ILE A 47	26.568	74.111	51.905	1.00	21.96	A	O
ATOM	362	N LYS A 48	28.018	75.818	51.805	1.00	21.30	A	N
ATOM	363	CA LYS A 48	28.834	75.292	52.890	1.00	20.85	A	C
ATOM	364	CB LYS A 48	30.032	76.203	53.151	1.00	22.83	A	C
ATOM	365	CG LYS A 48	31.094	76.059	52.091	1.00	27.64	A	C
ATOM	366	CD LYS A 48	32.380	76.794	52.444	1.00	31.38	A	C
ATOM	367	CE LYS A 48	32.246	78.287	52.245	1.00	32.58	A	C
ATOM	368	NZ LYS A 48	33.567	78.966	52.404	1.00	35.58	A	N
ATOM	369	C LYS A 48	28.029	75.101	54.163	1.00	21.38	A	C
ATOM	370	O LYS A 48	28.141	74.061	54.814	1.00	20.76	A	O
ATOM	371	N GLN A 49	27.211	76.091	54.520	1.00	19.20	A	N
ATOM	372	CA GLN A 49	26.395	75.963	55.716	1.00	19.40	A	C
ATOM	373	CB GLN A 49	25.619	77.256	56.005	1.00	19.30	A	C
ATOM	374	CG GLN A 49	24.776	77.203	57.286	1.00	22.44	A	C
ATOM	375	CD GLN A 49	25.581	76.812	58.525	1.00	20.73	A	C
ATOM	376	OE1 GLN A 49	26.740	77.192	58.667	1.00	22.79	A	O
ATOM	377	NE2 GLN A 49	24.958	76.068	59.433	1.00	22.60	A	N
ATOM	378	C GLN A 49	25.423	74.803	55.553	1.00	18.14	A	C
ATOM	379	O GLN A 49	25.159	74.074	56.510	1.00	19.87	A	O
ATOM	380	N PHE A 50	24.882	74.631	54.348	1.00	17.65	A	N
ATOM	381	CA PHE A 50	23.960	73.521	54.112	1.00	17.56	A	C
ATOM	382	CB PHE A 50	23.461	73.510	52.659	1.00	17.20	A	C
ATOM	383	CG PHE A 50	22.478	74.604	52.331	1.00	18.53	A	C
ATOM	384	CD1 PHE A 50	21.961	75.433	53.323	1.00	18.95	A	C
ATOM	385	CD2 PHE A 50	22.041	74.780	51.022	1.00	20.21	A	C
ATOM	386	CE1 PHE A 50	21.023	76.418	53.022	1.00	19.32	A	C
ATOM	387	CE2 PHE A 50	21.101	75.763	50.709	1.00	22.48	A	C
ATOM	388	CZ PHE A 50	20.592	76.583	51.716	1.00	21.15	A	C
ATOM	389	C PHE A 50	24.706	72.217	54.401	1.00	15.70	A	C
ATOM	390	O PHE A 50	24.178	71.311	55.048	1.00	15.38	A	O
ATOM	391	N GLY A 51	25.945	72.143	53.922	1.00	18.19	A	N
ATOM	392	CA GLY A 51	26.760	70.959	54.126	1.00	19.41	A	C
ATOM	393	C GLY A 51	27.006	70.667	55.592	1.00	20.96	A	C
ATOM	394	O GLY A 51	26.964	69.514	56.026	1.00	20.04	A	O
ATOM	395	N LEU A 52	27.261	71.716	56.368	1.00	22.33	A	N
ATOM	396	CA LEU A 52	27.508	71.542	57.791	1.00	22.23	A	C
ATOM	397	CB LEU A 52	27.995	72.855	58.412	1.00	24.46	A	C
ATOM	398	CG LEU A 52	29.385	73.328	57.980	1.00	25.92	A	C
ATOM	399	CD1 LEU A 52	29.734	74.618	58.719	1.00	28.98	A	C
ATOM	400	CD2 LEU A 52	30.423	72.249	58.293	1.00	27.40	A	C
ATOM	401	C LEU A 52	26.246	71.063	58.493	1.00	21.84	A	C
ATOM	402	O LEU A 52	26.294	70.180	59.344	1.00	21.12	A	O
ATOM	403	N GLU A 53	25.107	71.635	58.124	1.00	20.72	A	N
ATOM	404	CA GLU A 53	23.852	71.237	58.736	1.00	20.40	A	C
ATOM	405	CB GLU A 53	22.731	72.185	58.294	1.00	21.74	A	C
ATOM	406	CG GLU A 53	22.655	73.438	59.159	1.00	21.95	A	C
ATOM	407	CD GLU A 53	21.839	74.551	58.536	1.00	23.86	A	C
ATOM	408	OE1 GLU A 53	20.797	74.260	57.906	1.00	23.19	A	O
ATOM	409	OE2 GLU A 53	22.238	75.727	58.685	1.00	24.44	A	O
ATOM	410	C GLU A 53	23.514	69.789	58.405	1.00	19.46	A	C
ATOM	411	O GLU A 53	22.813	69.122	59.160	1.00	22.12	A	O
ATOM	412	N ALA A 54	24.022	69.295	57.282	1.00	20.85	A	N
ATOM	413	CA ALA A 54	23.760	67.910	56.905	1.00	18.16	A	C
ATOM	414	CB ALA A 54	24.252	67.647	55.498	1.00	16.88	A	C
ATOM	415	C ALA A 54	24.474	66.997	57.899	1.00	18.85	A	C
ATOM	416	O ALA A 54	23.953	65.944	58.280	1.00	18.10	A	O

Figure 7I

ATOM	417	N	LEU	A	55	25.670	67.408	58.313	1.00	19.45	A	N
ATOM	418	CA	LEU	A	55	26.442	66.639	59.281	1.00	19.66	A	C
ATOM	419	CB	LEU	A	55	27.775	67.329	59.590	1.00	21.26	A	C
ATOM	420	CG	LEU	A	55	28.782	67.408	58.442	1.00	22.31	A	C
ATOM	421	CD1	LEU	A	55	30.070	68.042	58.935	1.00	21.17	A	C
ATOM	422	CD2	LEU	A	55	29.055	66.008	57.898	1.00	22.77	A	C
ATOM	423	C	LEU	A	55	25.626	66.504	60.556	1.00	21.84	A	C
ATOM	424	O	LEU	A	55	25.589	65.437	61.166	1.00	20.58	A	O
ATOM	425	N	ASP	A	56	24.959	67.584	60.953	1.00	21.85	A	N
ATOM	426	CA	ASP	A	56	24.147	67.543	62.157	1.00	22.53	A	C
ATOM	427	CB	ASP	A	56	23.506	68.904	62.437	1.00	25.87	A	C
ATOM	428	CG	ASP	A	56	24.530	69.986	62.715	1.00	29.28	A	C
ATOM	429	OD1	ASP	A	56	25.636	69.651	63.190	1.00	31.33	A	O
ATOM	430	OD2	ASP	A	56	24.226	71.172	62.473	1.00	32.07	A	O
ATOM	431	C	ASP	A	56	23.062	66.492	62.023	1.00	22.75	A	C
ATOM	432	O	ASP	A	56	22.777	65.762	62.974	1.00	22.74	A	O
ATOM	433	N	PHE	A	57	22.459	66.403	60.841	1.00	20.21	A	N
ATOM	434	CA	PHE	A	57	21.404	65.422	60.633	1.00	21.09	A	C
ATOM	435	CB	PHE	A	57	20.831	65.497	59.215	1.00	21.92	A	C
ATOM	436	CG	PHE	A	57	19.915	64.352	58.893	1.00	21.43	A	C
ATOM	437	CD1	PHE	A	57	18.609	64.336	59.370	1.00	22.87	A	C
ATOM	438	CD2	PHE	A	57	20.393	63.233	58.214	1.00	20.64	A	C
ATOM	439	CE1	PHE	A	57	17.792	63.218	59.184	1.00	20.01	A	C
ATOM	440	CE2	PHE	A	57	19.589	62.112	58.024	1.00	21.14	A	C
ATOM	441	CZ	PHE	A	57	18.286	62.104	58.512	1.00	23.52	A	C
ATOM	442	C	PHE	A	57	21.873	63.991	60.864	1.00	18.61	A	C
ATOM	443	O	PHE	A	57	21.148	63.181	61.441	1.00	20.52	A	O
ATOM	444	N	PHE	A	58	23.081	63.679	60.408	1.00	19.51	A	N
ATOM	445	CA	PHE	A	58	23.615	62.324	60.532	1.00	21.64	A	C
ATOM	446	CB	PHE	A	58	24.701	62.097	59.478	1.00	18.15	A	C
ATOM	447	CG	PHE	A	58	24.181	62.018	58.072	1.00	17.07	A	C
ATOM	448	CD1	PHE	A	58	24.380	63.072	57.180	1.00	15.61	A	C
ATOM	449	CD2	PHE	A	58	23.508	60.878	57.628	1.00	16.58	A	C
ATOM	450	CE1	PHE	A	58	23.920	62.993	55.868	1.00	16.17	A	C
ATOM	451	CE2	PHE	A	58	23.044	60.790	56.318	1.00	20.24	A	C
ATOM	452	CZ	PHE	A	58	23.251	61.850	55.436	1.00	14.25	A	C
ATOM	453	C	PHE	A	58	24.164	61.894	61.896	1.00	24.25	A	C
ATOM	454	O	PHE	A	58	24.323	60.697	62.147	1.00	24.91	A	O
ATOM	455	N	LYS	A	59	24.449	62.850	62.774	1.00	26.87	A	N
ATOM	456	CA	LYS	A	59	25.014	62.528	64.087	1.00	28.83	A	C
ATOM	457	CB	LYS	A	59	25.116	63.800	64.931	1.00	31.02	A	C
ATOM	458	CG	LYS	A	59	26.127	64.792	64.374	1.00	33.56	A	C
ATOM	459	CD	LYS	A	59	26.237	66.047	65.221	1.00	37.86	A	C
ATOM	460	CE	LYS	A	59	27.270	67.000	64.632	1.00	38.94	A	C
ATOM	461	NZ	LYS	A	59	27.433	68.240	65.443	1.00	41.75	A	N
ATOM	462	C	LYS	A	59	24.312	61.419	64.879	1.00	28.21	A	C
ATOM	463	O	LYS	A	59	24.973	60.541	65.439	1.00	28.12	A	O
ATOM	464	N	PRO	A	60	22.969	61.437	64.933	1.00	27.85	A	N
ATOM	465	CD	PRO	A	60	22.061	62.472	64.412	1.00	27.44	A	C
ATOM	466	CA	PRO	A	60	22.219	60.409	65.671	1.00	26.21	A	C
ATOM	467	CB	PRO	A	60	20.791	60.962	65.691	1.00	28.29	A	C
ATOM	468	CG	PRO	A	60	20.961	62.446	65.419	1.00	29.74	A	C
ATOM	469	C	PRO	A	60	22.264	59.040	64.994	1.00	25.09	A	C
ATOM	470	O	PRO	A	60	22.116	58.004	65.640	1.00	24.61	A	O
ATOM	471	N	HIS	A	61	22.469	59.045	63.682	1.00	24.30	A	N
ATOM	472	CA	HIS	A	61	22.489	57.815	62.906	1.00	23.28	A	C
ATOM	473	CB	HIS	A	61	22.210	58.148	61.445	1.00	23.75	A	C
ATOM	474	CG	HIS	A	61	20.813	58.616	61.202	1.00	23.81	A	C

Figure 7J

ATOM	475	CD2 HIS A 61	20.307	59.858	61.017	1.00	24.28	A	C
ATOM	476	ND1 HIS A 61	19.738	57.753	61.163	1.00	21.57	A	N
ATOM	477	CE1 HIS A 61	18.631	58.443	60.963	1.00	21.88	A	C
ATOM	478	NE2 HIS A 61	18.948	59.723	60.871	1.00	24.37	A	N
ATOM	479	C HIS A 61	23.754	56.979	63.012	1.00	23.45	A	C
ATOM	480	O HIS A 61	23.812	55.879	62.475	1.00	23.17	A	O
ATOM	481	N GLU A 62	24.752	57.497	63.718	1.00	26.52	A	N
ATOM	482	CA GLU A 62	26.030	56.811	63.892	1.00	27.77	A	C
ATOM	483	CB GLU A 62	25.944	55.818	65.062	1.00	33.97	A	C
ATOM	484	CG GLU A 62	24.861	54.754	64.943	1.00	37.16	A	C
ATOM	485	CD GLU A 62	24.468	54.176	66.292	1.00	40.46	A	C
ATOM	486	OE1 GLU A 62	25.367	53.907	67.117	1.00	41.12	A	O
ATOM	487	OE2 GLU A 62	23.255	53.983	66.525	1.00	42.43	A	O
ATOM	488	C GLU A 62	26.545	56.118	62.626	1.00	26.21	A	C
ATOM	489	O GLU A 62	26.699	54.897	62.579	1.00	26.16	A	O
ATOM	490	N ILE A 63	26.798	56.913	61.591	1.00	22.24	A	N
ATOM	491	CA ILE A 63	27.333	56.385	60.338	1.00	21.10	A	C
ATOM	492	CB ILE A 63	26.904	57.246	59.124	1.00	19.78	A	C
ATOM	493	CG2 ILE A 63	25.416	57.065	58.859	1.00	15.78	A	C
ATOM	494	CG1 ILE A 63	27.224	58.718	59.388	1.00	16.88	A	C
ATOM	495	CD1 ILE A 63	27.000	59.636	58.189	1.00	18.48	A	C
ATOM	496	C ILE A 63	28.853	56.420	60.483	1.00	18.95	A	C
ATOM	497	O ILE A 63	29.385	57.182	61.293	1.00	19.85	A	O
ATOM	498	N GLU A 64	29.553	55.593	59.718	1.00	19.95	A	N
ATOM	499	CA GLU A 64	31.008	55.561	59.804	1.00	19.49	A	C
ATOM	500	CB GLU A 64	31.492	54.118	59.926	1.00	22.43	A	C
ATOM	501	CG GLU A 64	31.139	53.498	61.268	1.00	26.80	A	C
ATOM	502	CD GLU A 64	31.762	52.136	61.452	1.00	29.61	A	C
ATOM	503	OE1 GLU A 64	33.012	52.044	61.421	1.00	31.41	A	O
ATOM	504	OE2 GLU A 64	31.003	51.160	61.623	1.00	29.53	A	O
ATOM	505	C GLU A 64	31.684	56.251	58.630	1.00	17.37	A	C
ATOM	506	O GLU A 64	32.890	56.453	58.631	1.00	16.28	A	O
ATOM	507	N LEU A 65	30.890	56.615	57.632	1.00	18.28	A	N
ATOM	508	CA LEU A 65	31.393	57.308	56.456	1.00	17.15	A	C
ATOM	509	CB LEU A 65	32.035	56.318	55.478	1.00	18.66	A	C
ATOM	510	CG LEU A 65	32.582	56.903	54.169	1.00	21.47	A	C
ATOM	511	CD1 LEU A 65	33.667	55.991	53.603	1.00	23.00	A	C
ATOM	512	CD2 LEU A 65	31.449	57.086	53.167	1.00	22.69	A	C
ATOM	513	C LEU A 65	30.230	58.021	55.786	1.00	16.52	A	C
ATOM	514	O LEU A 65	29.100	57.539	55.813	1.00	14.91	A	O
ATOM	515	N LEU A 66	30.510	59.180	55.204	1.00	14.90	A	N
ATOM	516	CA LEU A 66	29.486	59.946	54.526	1.00	14.23	A	C
ATOM	517	CB LEU A 66	29.264	61.288	55.231	1.00	14.12	A	C
ATOM	518	CG LEU A 66	28.297	62.240	54.514	1.00	14.20	A	C
ATOM	519	CD1 LEU A 66	26.932	61.586	54.415	1.00	14.73	A	C
ATOM	520	CD2 LEU A 66	28.195	63.562	55.262	1.00	13.86	A	C
ATOM	521	C LEU A 66	29.864	60.200	53.077	1.00	14.92	A	C
ATOM	522	O LEU A 66	30.975	60.642	52.773	1.00	14.96	A	O
ATOM	523	N ILE A 67	28.938	59.886	52.181	1.00	13.46	A	N
ATOM	524	CA ILE A 67	29.140	60.124	50.766	1.00	12.96	A	C
ATOM	525	CB ILE A 67	28.641	58.953	49.886	1.00	13.86	A	C
ATOM	526	CG2 ILE A 67	28.617	59.385	48.419	1.00	12.97	A	C
ATOM	527	CG1 ILE A 67	29.541	57.729	50.066	1.00	14.37	A	C
ATOM	528	CD1 ILE A 67	29.105	56.530	49.237	1.00	18.27	A	C
ATOM	529	C ILE A 67	28.314	61.346	50.406	1.00	12.36	A	C
ATOM	530	O ILE A 67	27.116	61.420	50.719	1.00	13.82	A	O
ATOM	531	N VAL A 68	28.964	62.317	49.780	1.00	12.37	A	N
ATOM	532	CA VAL A 68	28.275	63.516	49.342	1.00	12.34	A	C

Figure 7K

ATOM	533	CB	VAL	A	68	29.160	64.759	49.466	1.00	10.71	A	C
ATOM	534	CG1	VAL	A	68	28.413	65.977	48.916	1.00	10.16	A	C
ATOM	535	CG2	VAL	A	68	29.525	64.978	50.927	1.00	11.52	A	C
ATOM	536	C	VAL	A	68	28.002	63.222	47.884	1.00	11.20	A	C
ATOM	537	O	VAL	A	68	28.885	63.362	47.038	1.00	12.44	A	O
ATOM	538	N	ALA	A	69	26.785	62.775	47.602	1.00	9.18	A	N
ATOM	539	CA	ALA	A	69	26.405	62.415	46.244	1.00	10.89	A	C
ATOM	540	CB	ALA	A	69	25.129	61.581	46.263	1.00	9.29	A	C
ATOM	541	C	ALA	A	69	26.218	63.631	45.358	1.00	10.34	A	C
ATOM	542	O	ALA	A	69	26.341	63.546	44.139	1.00	11.20	A	O
ATOM	543	N	CYS	A	70	25.905	64.760	45.982	1.00	10.65	A	N
ATOM	544	CA	CYS	A	70	25.692	66.000	45.253	1.00	11.99	A	C
ATOM	545	CB	CYS	A	70	25.026	67.030	46.167	1.00	13.56	A	C
ATOM	546	SG	CYS	A	70	24.697	68.605	45.370	1.00	10.79	A	S
ATOM	547	C	CYS	A	70	27.004	66.560	44.720	1.00	11.25	A	C
ATOM	548	O	CYS	A	70	27.981	66.708	45.463	1.00	9.23	A	O
ATOM	549	N	ASN	A	71	27.030	66.867	43.425	1.00	10.81	A	N
ATOM	550	CA	ASN	A	71	28.228	67.424	42.807	1.00	9.85	A	C
ATOM	551	CB	ASN	A	71	28.120	67.369	41.285	1.00	7.25	A	C
ATOM	552	CG	ASN	A	71	28.026	65.959	40.768	1.00	9.24	A	C
ATOM	553	OD1	ASN	A	71	26.998	65.298	40.919	1.00	8.82	A	O
ATOM	554	ND2	ASN	A	71	29.107	65.478	40.165	1.00	9.13	A	N
ATOM	555	C	ASN	A	71	28.434	68.866	43.246	1.00	12.09	A	C
ATOM	556	O	ASN	A	71	29.565	69.321	43.432	1.00	9.50	A	O
ATOM	557	N	THR	A	72	27.337	69.593	43.399	1.00	10.94	A	N
ATOM	558	CA	THR	A	72	27.436	70.975	43.834	1.00	10.39	A	C
ATOM	559	CB	THR	A	72	26.073	71.676	43.779	1.00	9.07	A	C
ATOM	560	OG1	THR	A	72	25.599	71.675	42.429	1.00	10.15	A	O
ATOM	561	CG2	THR	A	72	26.200	73.122	44.262	1.00	9.53	A	C
ATOM	562	C	THR	A	72	27.974	71.029	45.259	1.00	11.47	A	C
ATOM	563	O	THR	A	72	28.882	71.808	45.556	1.00	9.49	A	O
ATOM	564	N	ALA	A	73	27.415	70.202	46.144	1.00	13.67	A	N
ATOM	565	CA	ALA	A	73	27.871	70.171	47.531	1.00	13.27	A	C
ATOM	566	CB	ALA	A	73	26.979	69.251	48.368	1.00	15.12	A	C
ATOM	567	C	ALA	A	73	29.318	69.691	47.586	1.00	15.74	A	C
ATOM	568	O	ALA	A	73	30.111	70.160	48.412	1.00	15.99	A	O
ATOM	569	N	SER	A	74	29.660	68.746	46.714	1.00	13.48	A	N
ATOM	570	CA	SER	A	74	31.021	68.226	46.677	1.00	13.55	A	C
ATOM	571	CB	SER	A	74	31.133	67.078	45.665	1.00	10.32	A	C
ATOM	572	OG	SER	A	74	30.483	65.916	46.148	1.00	14.22	A	O
ATOM	573	C	SER	A	74	31.994	69.333	46.297	1.00	15.60	A	C
ATOM	574	O	SER	A	74	33.093	69.439	46.845	1.00	14.18	A	O
ATOM	575	N	ALA	A	75	31.578	70.169	45.359	1.00	13.93	A	N
ATOM	576	CA	ALA	A	75	32.422	71.259	44.899	1.00	15.79	A	C
ATOM	577	CB	ALA	A	75	31.899	71.773	43.560	1.00	16.15	A	C
ATOM	578	C	ALA	A	75	32.549	72.420	45.886	1.00	17.44	A	C
ATOM	579	O	ALA	A	75	33.639	72.967	46.063	1.00	18.83	A	O
ATOM	580	N	LEU	A	76	31.453	72.777	46.548	1.00	15.33	A	N
ATOM	581	CA	LEU	A	76	31.462	73.920	47.460	1.00	17.71	A	C
ATOM	582	CB	LEU	A	76	30.236	74.793	47.189	1.00	16.64	A	C
ATOM	583	CG	LEU	A	76	30.154	75.642	45.917	1.00	19.98	A	C
ATOM	584	CD1	LEU	A	76	30.338	74.793	44.681	1.00	15.78	A	C
ATOM	585	CD2	LEU	A	76	28.801	76.343	45.886	1.00	19.48	A	C
ATOM	586	C	LEU	A	76	31.544	73.693	48.967	1.00	18.84	A	C
ATOM	587	O	LEU	A	76	32.101	74.531	49.685	1.00	17.49	A	O
ATOM	588	N	ALA	A	77	30.996	72.584	49.456	1.00	16.91	A	N
ATOM	589	CA	ALA	A	77	30.986	72.338	50.896	1.00	17.45	A	C
ATOM	590	CB	ALA	A	77	29.546	72.118	51.363	1.00	15.97	A	C

Figure 7L

ATOM	591	C	ALA	A	77	31.862	71.206	51.422	1.00	17.05	A	C
ATOM	592	O	ALA	A	77	32.092	71.120	52.630	1.00	15.31	A	O
ATOM	593	N	LEU	A	78	32.355	70.350	50.533	1.00	17.95	A	N
ATOM	594	CA	LEU	A	78	33.173	69.217	50.950	1.00	18.28	A	C
ATOM	595	CB	LEU	A	78	33.701	68.456	49.726	1.00	17.49	A	C
ATOM	596	CG	LEU	A	78	34.425	67.141	50.053	1.00	18.47	A	C
ATOM	597	CD1	LEU	A	78	33.467	66.196	50.771	1.00	13.07	A	C
ATOM	598	CD2	LEU	A	78	34.949	66.493	48.772	1.00	15.57	A	C
ATOM	599	C	LEU	A	78	34.337	69.572	51.873	1.00	19.44	A	C
ATOM	600	O	LEU	A	78	34.478	68.986	52.944	1.00	17.85	A	O
ATOM	601	N	GLU	A	79	35.173	70.524	51.472	1.00	20.74	A	N
ATOM	602	CA	GLU	A	79	36.310	70.897	52.304	1.00	23.29	A	C
ATOM	603	CB	GLU	A	79	37.112	72.023	51.652	1.00	25.50	A	C
ATOM	604	CG	GLU	A	79	38.332	72.435	52.464	1.00	32.40	A	C
ATOM	605	CD	GLU	A	79	39.248	73.382	51.714	1.00	36.37	A	C
ATOM	606	OE1	GLU	A	79	38.811	74.501	51.377	1.00	38.33	A	O
ATOM	607	OE2	GLU	A	79	40.411	73.002	51.459	1.00	40.30	A	O
ATOM	608	C	GLU	A	79	35.900	71.312	53.716	1.00	22.08	A	C
ATOM	609	O	GLU	A	79	36.512	70.888	54.691	1.00	22.83	A	O
ATOM	610	N	GLU	A	80	34.862	72.132	53.825	1.00	22.05	A	N
ATOM	611	CA	GLU	A	80	34.399	72.591	55.125	1.00	21.68	A	C
ATOM	612	CB	GLU	A	80	33.336	73.675	54.957	1.00	26.13	A	C
ATOM	613	CG	GLU	A	80	33.081	74.457	56.232	1.00	32.22	A	C
ATOM	614	CD	GLU	A	80	34.173	75.479	56.521	1.00	34.38	A	C
ATOM	615	OE1	GLU	A	80	35.371	75.145	56.399	1.00	36.64	A	O
ATOM	616	OE2	GLU	A	80	33.828	76.623	56.878	1.00	38.94	A	O
ATOM	617	C	GLU	A	80	33.823	71.435	55.939	1.00	21.19	A	C
ATOM	618	O	GLU	A	80	34.013	71.359	57.152	1.00	20.49	A	O
ATOM	619	N	MET	A	81	33.116	70.533	55.269	1.00	18.90	A	N
ATOM	620	CA	MET	A	81	32.531	69.389	55.950	1.00	16.84	A	C
ATOM	621	CB	MET	A	81	31.639	68.605	54.992	1.00	14.00	A	C
ATOM	622	CG	MET	A	81	30.375	69.349	54.615	1.00	15.86	A	C
ATOM	623	SD	MET	A	81	29.517	68.583	53.244	1.00	15.74	A	S
ATOM	624	CE	MET	A	81	28.866	67.134	54.019	1.00	14.04	A	C
ATOM	625	C	MET	A	81	33.618	68.474	56.503	1.00	17.31	A	C
ATOM	626	O	MET	A	81	33.539	68.020	57.646	1.00	16.49	A	O
ATOM	627	N	GLN	A	82	34.632	68.216	55.684	1.00	18.90	A	N
ATOM	628	CA	GLN	A	82	35.739	67.351	56.078	1.00	22.12	A	C
ATOM	629	CB	GLN	A	82	36.674	67.125	54.887	1.00	22.92	A	C
ATOM	630	CG	GLN	A	82	36.001	66.442	53.706	1.00	21.03	A	C
ATOM	631	CD	GLN	A	82	36.961	66.158	52.575	1.00	22.15	A	C
ATOM	632	OE1	GLN	A	82	37.725	67.033	52.159	1.00	22.13	A	O
ATOM	633	NE2	GLN	A	82	36.924	64.934	52.061	1.00	20.69	A	N
ATOM	634	C	GLN	A	82	36.516	67.956	57.237	1.00	24.53	A	C
ATOM	635	O	GLN	A	82	37.051	67.239	58.086	1.00	23.68	A	O
ATOM	636	N	LYS	A	83	36.565	69.282	57.271	1.00	26.24	A	N
ATOM	637	CA	LYS	A	83	37.282	69.993	58.317	1.00	30.03	A	C
ATOM	638	CB	LYS	A	83	37.178	71.505	58.092	1.00	30.40	A	C
ATOM	639	CG	LYS	A	83	38.023	72.336	59.041	1.00	34.26	A	C
ATOM	640	CD	LYS	A	83	37.873	73.829	58.756	1.00	38.51	A	C
ATOM	641	CE	LYS	A	83	38.287	74.175	57.329	1.00	42.25	A	C
ATOM	642	NZ	LYS	A	83	38.067	75.619	57.005	1.00	43.57	A	N
ATOM	643	C	LYS	A	83	36.764	69.650	59.708	1.00	30.42	A	C
ATOM	644	O	LYS	A	83	37.551	69.395	60.616	1.00	31.77	A	O
ATOM	645	N	TYR	A	84	35.445	69.624	59.870	1.00	30.72	A	N
ATOM	646	CA	TYR	A	84	34.850	69.341	61.173	1.00	34.49	A	C
ATOM	647	CB	TYR	A	84	33.702	70.322	61.441	1.00	38.58	A	C
ATOM	648	CG	TYR	A	84	34.109	71.781	61.386	1.00	43.85	A	C

Figure 7M

ATOM	649	CD1 TYR A 84	34.172	72.465	60.169	1.00	45.26	A	C
ATOM	650	CE1 TYR A 84	34.575	73.803	60.111	1.00	46.74	A	C
ATOM	651	CD2 TYR A 84	34.460	72.472	62.549	1.00	45.80	A	C
ATOM	652	CE2 TYR A 84	34.865	73.808	62.501	1.00	47.25	A	C
ATOM	653	CZ TYR A 84	34.920	74.467	61.281	1.00	47.45	A	C
ATOM	654	OH TYR A 84	35.321	75.784	61.233	1.00	47.13	A	O
ATOM	655	C TYR A 84	34.349	67.911	61.401	1.00	33.43	A	C
ATOM	656	O TYR A 84	33.973	67.555	62.520	1.00	34.46	A	O
ATOM	657	N SER A 85	34.348	67.088	60.361	1.00	30.46	A	N
ATOM	658	CA SER A 85	33.865	65.721	60.507	1.00	27.21	A	C
ATOM	659	CB SER A 85	33.384	65.192	59.160	1.00	26.99	A	C
ATOM	660	OG SER A 85	33.003	63.836	59.279	1.00	27.59	A	O
ATOM	661	C SER A 85	34.883	64.745	61.088	1.00	25.50	A	C
ATOM	662	O SER A 85	36.059	64.778	60.730	1.00	24.71	A	O
ATOM	663	N LYS A 86	34.415	63.875	61.981	1.00	23.68	A	N
ATOM	664	CA LYS A 86	35.265	62.868	62.609	1.00	23.93	A	C
ATOM	665	CB LYS A 86	34.741	62.509	64.005	1.00	26.65	A	C
ATOM	666	CG LYS A 86	34.774	63.644	65.028	1.00	31.69	A	C
ATOM	667	CD LYS A 86	36.190	63.990	65.491	1.00	34.31	A	C
ATOM	668	CE LYS A 86	37.015	64.657	64.401	1.00	35.72	A	C
ATOM	669	NZ LYS A 86	38.359	65.087	64.902	1.00	41.28	A	N
ATOM	670	C LYS A 86	35.308	61.607	61.752	1.00	22.61	A	C
ATOM	671	O LYS A 86	36.192	60.765	61.914	1.00	23.21	A	O
ATOM	672	N ILE A 87	34.337	61.462	60.857	1.00	19.67	A	N
ATOM	673	CA ILE A 87	34.305	60.302	59.975	1.00	18.68	A	C
ATOM	674	CB ILE A 87	32.896	59.681	59.888	1.00	18.75	A	C
ATOM	675	CG2 ILE A 87	32.510	59.090	61.233	1.00	18.89	A	C
ATOM	676	CG1 ILE A 87	31.887	60.742	59.433	1.00	21.06	A	C
ATOM	677	CD1 ILE A 87	30.508	60.187	59.086	1.00	18.90	A	C
ATOM	678	C ILE A 87	34.720	60.751	58.585	1.00	16.98	A	C
ATOM	679	O ILE A 87	34.614	61.932	58.248	1.00	16.62	A	O
ATOM	680	N PRO A 88	35.219	59.822	57.761	1.00	17.72	A	N
ATOM	681	CD PRO A 88	35.548	58.403	57.992	1.00	17.09	A	C
ATOM	682	CA PRO A 88	35.616	60.247	56.418	1.00	17.99	A	C
ATOM	683	CB PRO A 88	36.319	59.011	55.857	1.00	19.59	A	C
ATOM	684	CG PRO A 88	35.648	57.872	56.587	1.00	18.28	A	C
ATOM	685	C PRO A 88	34.411	60.672	55.577	1.00	19.00	A	C
ATOM	686	O PRO A 88	33.318	60.125	55.711	1.00	17.80	A	O
ATOM	687	N ILE A 89	34.622	61.668	54.726	1.00	19.35	A	N
ATOM	688	CA ILE A 89	33.577	62.163	53.843	1.00	18.35	A	C
ATOM	689	CB ILE A 89	33.171	63.613	54.196	1.00	18.03	A	C
ATOM	690	CG2 ILE A 89	32.157	64.136	53.185	1.00	16.99	A	C
ATOM	691	CG1 ILE A 89	32.562	63.641	55.598	1.00	18.30	A	C
ATOM	692	CD1 ILE A 89	32.020	64.990	56.011	1.00	26.25	A	C
ATOM	693	C ILE A 89	34.134	62.108	52.429	1.00	17.01	A	C
ATOM	694	O ILE A 89	35.206	62.646	52.144	1.00	18.36	A	O
ATOM	695	N VAL A 90	33.406	61.435	51.551	1.00	15.45	A	N
ATOM	696	CA VAL A 90	33.829	61.270	50.173	1.00	14.79	A	C
ATOM	697	CB VAL A 90	33.899	59.779	49.806	1.00	14.33	A	C
ATOM	698	CG1 VAL A 90	34.409	59.605	48.389	1.00	12.10	A	C
ATOM	699	CG2 VAL A 90	34.804	59.055	50.796	1.00	15.51	A	C
ATOM	700	C VAL A 90	32.858	61.957	49.234	1.00	14.94	A	C
ATOM	701	O VAL A 90	31.658	61.702	49.283	1.00	15.20	A	O
ATOM	702	N GLY A 91	33.391	62.830	48.387	1.00	13.93	A	N
ATOM	703	CA GLY A 91	32.570	63.540	47.427	1.00	14.67	A	C
ATOM	704	C GLY A 91	32.606	62.829	46.087	1.00	15.17	A	C
ATOM	705	O GLY A 91	33.262	61.794	45.937	1.00	15.39	A	O
ATOM	706	N VAL A 92	31.921	63.391	45.101	1.00	13.28	A	N

Figure 7N

ATOM	707	CA	VAL A 92	31.871	62.777	43.782	1.00	15.09	A	C
ATOM	708	CB	VAL A 92	30.434	62.762	43.243	1.00	14.78	A	C
ATOM	709	CG1	VAL A 92	29.629	61.703	43.977	1.00	14.03	A	C
ATOM	710	CG2	VAL A 92	29.793	64.135	43.412	1.00	10.70	A	C
ATOM	711	C	VAL A 92	32.770	63.405	42.730	1.00	14.63	A	C
ATOM	712	O	VAL A 92	32.739	63.006	41.567	1.00	17.71	A	O
ATOM	713	N	ILE A 93	33.578	64.378	43.128	1.00	15.55	A	N
ATOM	714	CA	ILE A 93	34.468	65.025	42.176	1.00	16.08	A	C
ATOM	715	CB	ILE A 93	34.684	66.497	42.561	1.00	16.56	A	C
ATOM	716	CG2	ILE A 93	35.653	67.169	41.589	1.00	11.15	A	C
ATOM	717	CG1	ILE A 93	33.329	67.210	42.555	1.00	17.56	A	C
ATOM	718	CD1	ILE A 93	33.385	68.627	43.056	1.00	24.35	A	C
ATOM	719	C	ILE A 93	35.812	64.304	42.032	1.00	15.47	A	C
ATOM	720	O	ILE A 93	36.180	63.904	40.926	1.00	14.93	A	O
ATOM	721	N	GLU A 94	36.536	64.118	43.132	1.00	16.92	A	N
ATOM	722	CA	GLU A 94	37.831	63.446	43.052	1.00	16.92	A	C
ATOM	723	CB	GLU A 94	38.471	63.305	44.434	1.00	20.92	A	C
ATOM	724	CG	GLU A 94	39.894	62.754	44.361	1.00	26.29	A	C
ATOM	725	CD	GLU A 94	40.576	62.678	45.713	1.00	32.62	A	C
ATOM	726	OE1	GLU A 94	40.310	61.723	46.474	1.00	35.02	A	O
ATOM	727	OE2	GLU A 94	41.377	63.588	46.019	1.00	37.91	A	O
ATOM	728	C	GLU A 94	37.745	62.067	42.399	1.00	16.23	A	C
ATOM	729	O	GLU A 94	38.594	61.710	41.578	1.00	12.72	A	O
ATOM	730	N	PRO A 95	36.728	61.263	42.765	1.00	14.67	A	N
ATOM	731	CD	PRO A 95	35.728	61.426	43.835	1.00	11.50	A	C
ATOM	732	CA	PRO A 95	36.612	59.933	42.154	1.00	13.49	A	C
ATOM	733	CB	PRO A 95	35.324	59.385	42.766	1.00	10.50	A	C
ATOM	734	CG	PRO A 95	35.340	59.990	44.132	1.00	13.67	A	C
ATOM	735	C	PRO A 95	36.552	59.995	40.628	1.00	13.36	A	C
ATOM	736	O	PRO A 95	37.111	59.144	39.942	1.00	13.11	A	O
ATOM	737	N	SER A 96	35.868	61.001	40.097	1.00	13.15	A	N
ATOM	738	CA	SER A 96	35.769	61.145	38.652	1.00	13.88	A	C
ATOM	739	CB	SER A 96	34.712	62.190	38.287	1.00	13.27	A	C
ATOM	740	OG	SER A 96	33.415	61.695	38.569	1.00	13.98	A	O
ATOM	741	C	SER A 96	37.121	61.532	38.062	1.00	16.13	A	C
ATOM	742	O	SER A 96	37.482	61.069	36.978	1.00	16.25	A	O
ATOM	743	N	ILE A 97	37.862	62.381	38.774	1.00	16.51	A	N
ATOM	744	CA	ILE A 97	39.181	62.807	38.318	1.00	16.84	A	C
ATOM	745	CB	ILE A 97	39.836	63.786	39.325	1.00	20.72	A	C
ATOM	746	CG2	ILE A 97	41.243	64.165	38.860	1.00	19.14	A	C
ATOM	747	CG1	ILE A 97	38.968	65.039	39.477	1.00	21.89	A	C
ATOM	748	CD1	ILE A 97	38.774	65.827	38.192	1.00	22.65	A	C
ATOM	749	C	ILE A 97	40.070	61.572	38.178	1.00	17.43	A	C
ATOM	750	O	ILE A 97	40.762	61.399	37.171	1.00	16.68	A	O
ATOM	751	N	LEU A 98	40.043	60.716	39.193	1.00	15.65	A	N
ATOM	752	CA	LEU A 98	40.840	59.498	39.182	1.00	18.16	A	C
ATOM	753	CB	LEU A 98	40.749	58.809	40.547	1.00	16.07	A	C
ATOM	754	CG	LEU A 98	41.359	59.641	41.682	1.00	15.84	A	C
ATOM	755	CD1	LEU A 98	41.069	58.980	43.020	1.00	13.47	A	C
ATOM	756	CD2	LEU A 98	42.866	59.788	41.466	1.00	19.12	A	C
ATOM	757	C	LEU A 98	40.374	58.563	38.063	1.00	17.77	A	C
ATOM	758	O	LEU A 98	41.199	57.934	37.389	1.00	16.62	A	O
ATOM	759	N	ALA A 99	39.058	58.485	37.859	1.00	16.23	A	N
ATOM	760	CA	ALA A 99	38.490	57.643	36.807	1.00	18.22	A	C
ATOM	761	CB	ALA A 99	36.962	57.767	36.788	1.00	20.22	A	C
ATOM	762	C	ALA A 99	39.065	58.077	35.462	1.00	17.90	A	C
ATOM	763	O	ALA A 99	39.496	57.246	34.658	1.00	17.01	A	O
ATOM	764	N	ILE A 100	39.067	59.386	35.226	1.00	15.73	A	N

Figure 7O

ATOM	765	CA	ILE A 100	39.601	59.939	33.987	1.00	17.26	A	C
ATOM	766	CB	ILE A 100	39.378	61.461	33.932	1.00	12.99	A	C
ATOM	767	CG2	ILE A 100	40.158	62.065	32.772	1.00	16.82	A	C
ATOM	768	CG1	ILE A 100	37.880	61.752	33.795	1.00	15.82	A	C
ATOM	769	CD1	ILE A 100	37.516	63.216	33.925	1.00	14.23	A	C
ATOM	770	C	ILE A 100	41.099	59.640	33.878	1.00	19.31	A	C
ATOM	771	O	ILE A 100	41.594	59.260	32.815	1.00	19.06	A	O
ATOM	772	N	LYS A 101	41.812	59.802	34.986	1.00	19.58	A	N
ATOM	773	CA	LYS A 101	43.246	59.543	35.019	1.00	22.07	A	C
ATOM	774	CB	LYS A 101	43.771	59.741	36.440	1.00	23.70	A	C
ATOM	775	CG	LYS A 101	45.273	59.581	36.595	1.00	28.63	A	C
ATOM	776	CD	LYS A 101	45.671	59.665	38.062	1.00	33.56	A	C
ATOM	777	CE	LYS A 101	47.180	59.570	38.245	1.00	36.39	A	C
ATOM	778	NZ	LYS A 101	47.894	60.739	37.649	1.00	38.26	A	N
ATOM	779	C	LYS A 101	43.538	58.117	34.551	1.00	23.93	A	C
ATOM	780	O	LYS A 101	44.472	57.882	33.780	1.00	23.77	A	O
ATOM	781	N	ARG A 102	42.723	57.174	35.010	1.00	23.37	A	N
ATOM	782	CA	ARG A 102	42.899	55.775	34.655	1.00	25.65	A	C
ATOM	783	CB	ARG A 102	42.096	54.870	35.593	1.00	25.41	A	C
ATOM	784	CG	ARG A 102	42.656	54.749	37.000	1.00	28.61	A	C
ATOM	785	CD	ARG A 102	41.926	53.657	37.782	1.00	31.73	A	C
ATOM	786	NE	ARG A 102	40.486	53.903	37.858	1.00	35.18	A	N
ATOM	787	CZ	ARG A 102	39.903	54.713	38.736	1.00	34.42	A	C
ATOM	788	NH1	ARG A 102	38.586	54.876	38.718	1.00	29.69	A	N
ATOM	789	NH2	ARG A 102	40.637	55.344	39.644	1.00	34.01	A	N
ATOM	790	C	ARG A 102	42.522	55.437	33.222	1.00	26.39	A	C
ATOM	791	O	ARG A 102	43.180	54.611	32.594	1.00	26.86	A	O
ATOM	792	N	GLN A 103	41.473	56.061	32.694	1.00	26.77	A	N
ATOM	793	CA	GLN A 103	41.067	55.733	31.331	1.00	27.82	A	C
ATOM	794	CB	GLN A 103	39.585	55.335	31.306	1.00	28.07	A	C
ATOM	795	CG	GLN A 103	38.661	56.210	32.116	1.00	31.66	A	C
ATOM	796	CD	GLN A 103	37.378	55.489	32.504	1.00	32.01	A	C
ATOM	797	OE1	GLN A 103	36.672	54.951	31.651	1.00	32.82	A	O
ATOM	798	NE2	GLN A 103	37.071	55.479	33.797	1.00	31.78	A	N
ATOM	799	C	GLN A 103	41.363	56.739	30.223	1.00	26.37	A	C
ATOM	800	O	GLN A 103	41.024	56.494	29.066	1.00	26.19	A	O
ATOM	801	N	VAL A 104	42.003	57.856	30.559	1.00	25.47	A	N
ATOM	802	CA	VAL A 104	42.342	58.855	29.550	1.00	24.55	A	C
ATOM	803	CB	VAL A 104	41.542	60.154	29.756	1.00	23.42	A	C
ATOM	804	CG1	VAL A 104	41.998	61.208	28.755	1.00	24.85	A	C
ATOM	805	CG2	VAL A 104	40.055	59.876	29.582	1.00	19.58	A	C
ATOM	806	C	VAL A 104	43.838	59.174	29.578	1.00	26.78	A	C
ATOM	807	O	VAL A 104	44.287	60.043	30.324	1.00	25.34	A	O
ATOM	808	N	GLU A 105	44.601	58.460	28.755	1.00	27.15	A	N
ATOM	809	CA	GLU A 105	46.045	58.641	28.679	1.00	28.29	A	C
ATOM	810	CB	GLU A 105	46.680	57.457	27.947	1.00	33.28	A	C
ATOM	811	CG	GLU A 105	46.743	56.183	28.771	1.00	42.55	A	C
ATOM	812	CD	GLU A 105	47.669	56.315	29.969	1.00	46.07	A	C
ATOM	813	OE1	GLU A 105	47.467	57.242	30.784	1.00	48.67	A	O
ATOM	814	OE2	GLU A 105	48.600	55.491	30.095	1.00	49.87	A	O
ATOM	815	C	GLU A 105	46.461	59.930	27.995	1.00	27.62	A	C
ATOM	816	O	GLU A 105	47.395	60.600	28.437	1.00	27.02	A	O
ATOM	817	N	ASP A 106	45.769	60.273	26.914	1.00	26.11	A	N
ATOM	818	CA	ASP A 106	46.079	61.485	26.164	1.00	25.35	A	C
ATOM	819	CB	ASP A 106	45.271	61.526	24.867	1.00	24.40	A	C
ATOM	820	CG	ASP A 106	45.714	62.641	23.932	1.00	25.06	A	C
ATOM	821	OD1	ASP A 106	46.302	63.640	24.404	1.00	25.51	A	O
ATOM	822	OD2	ASP A 106	45.458	62.522	22.718	1.00	25.51	A	O

Figure 7P

ATOM	823	C	ASP A 106	45.759	62.722	26.991	1.00	24.65	A	C
ATOM	824	O	ASP A 106	44.593	63.086	27.142	1.00	24.49	A	O
ATOM	825	N	LYS A 107	46.791	63.372	27.519	1.00	25.06	A	N
ATOM	826	CA	LYS A 107	46.593	64.570	28.327	1.00	24.62	A	C
ATOM	827	CB	LYS A 107	47.919	65.024	28.954	1.00	26.00	A	C
ATOM	828	CG	LYS A 107	48.506	64.047	29.972	1.00	28.40	A	C
ATOM	829	CD	LYS A 107	47.527	63.770	31.107	1.00	26.24	A	C
ATOM	830	CE	LYS A 107	48.086	62.757	32.090	1.00	30.72	A	C
ATOM	831	NZ	LYS A 107	47.086	62.398	33.133	1.00	34.82	A	N
ATOM	832	C	LYS A 107	46.000	65.708	27.503	1.00	24.04	A	C
ATOM	833	O	LYS A 107	45.538	66.706	28.054	1.00	25.01	A	O
ATOM	834	N	ASN A 108	46.014	65.555	26.182	1.00	24.07	A	N
ATOM	835	CA	ASN A 108	45.473	66.572	25.286	1.00	23.49	A	C
ATOM	836	CB	ASN A 108	46.390	66.750	24.073	1.00	23.91	A	C
ATOM	837	CG	ASN A 108	47.596	67.601	24.385	1.00	26.66	A	C
ATOM	838	OD1	ASN A 108	47.464	68.780	24.716	1.00	28.22	A	O
ATOM	839	ND2	ASN A 108	48.780	67.011	24.293	1.00	26.45	A	N
ATOM	840	C	ASN A 108	44.059	66.255	24.818	1.00	21.66	A	C
ATOM	841	O	ASN A 108	43.487	66.983	24.009	1.00	22.58	A	O
ATOM	842	N	ALA A 109	43.494	65.164	25.321	1.00	21.45	A	N
ATOM	843	CA	ALA A 109	42.137	64.793	24.946	1.00	20.49	A	C
ATOM	844	CB	ALA A 109	41.755	63.468	25.599	1.00	21.55	A	C
ATOM	845	C	ALA A 109	41.187	65.902	25.402	1.00	18.98	A	C
ATOM	846	O	ALA A 109	41.237	66.346	26.546	1.00	18.14	A	O
ATOM	847	N	PRO A 110	40.315	66.375	24.505	1.00	19.61	A	N
ATOM	848	CD	PRO A 110	40.090	65.997	23.100	1.00	20.78	A	C
ATOM	849	CA	PRO A 110	39.397	67.436	24.919	1.00	18.53	A	C
ATOM	850	CB	PRO A 110	38.762	67.872	23.606	1.00	18.56	A	C
ATOM	851	CG	PRO A 110	38.726	66.596	22.825	1.00	22.18	A	C
ATOM	852	C	PRO A 110	38.380	66.924	25.928	1.00	17.90	A	C
ATOM	853	O	PRO A 110	37.623	65.996	25.650	1.00	18.78	A	O
ATOM	854	N	ILE A 111	38.384	67.526	27.109	1.00	16.88	A	N
ATOM	855	CA	ILE A 111	37.461	67.137	28.165	1.00	16.87	A	C
ATOM	856	CB	ILE A 111	38.197	66.905	29.503	1.00	17.13	A	C
ATOM	857	CG2	ILE A 111	37.195	66.560	30.592	1.00	18.00	A	C
ATOM	858	CG1	ILE A 111	39.225	65.780	29.352	1.00	16.90	A	C
ATOM	859	CD1	ILE A 111	40.127	65.612	30.574	1.00	20.07	A	C
ATOM	860	C	ILE A 111	36.438	68.246	28.360	1.00	14.74	A	C
ATOM	861	O	ILE A 111	36.792	69.422	28.422	1.00	18.10	A	O
ATOM	862	N	LEU A 112	35.170	67.861	28.450	1.00	15.95	A	N
ATOM	863	CA	LEU A 112	34.086	68.814	28.646	1.00	15.98	A	C
ATOM	864	CB	LEU A 112	33.081	68.715	27.498	1.00	13.81	A	C
ATOM	865	CG	LEU A 112	31.755	69.460	27.703	1.00	17.30	A	C
ATOM	866	CD1	LEU A 112	32.000	70.958	27.834	1.00	12.50	A	C
ATOM	867	CD2	LEU A 112	30.832	69.165	26.524	1.00	17.57	A	C
ATOM	868	C	LEU A 112	33.379	68.527	29.966	1.00	15.50	A	C
ATOM	869	O	LEU A 112	32.823	67.445	30.158	1.00	14.25	A	O
ATOM	870	N	VAL A 113	33.394	69.507	30.864	1.00	15.54	A	N
ATOM	871	CA	VAL A 113	32.767	69.361	32.173	1.00	15.01	A	C
ATOM	872	CB	VAL A 113	33.614	70.035	33.278	1.00	16.33	A	C
ATOM	873	CG1	VAL A 113	33.011	69.752	34.653	1.00	12.34	A	C
ATOM	874	CG2	VAL A 113	35.053	69.538	33.208	1.00	15.51	A	C
ATOM	875	C	VAL A 113	31.390	70.006	32.178	1.00	15.47	A	C
ATOM	876	O	VAL A 113	31.257	71.197	31.901	1.00	15.67	A	O
ATOM	877	N	LEU A 114	30.370	69.215	32.494	1.00	14.67	A	N
ATOM	878	CA	LEU A 114	29.000	69.717	32.554	1.00	13.42	A	C
ATOM	879	CB	LEU A 114	28.074	68.836	31.716	1.00	13.87	A	C
ATOM	880	CG	LEU A 114	28.440	68.622	30.247	1.00	15.67	A	C

Figure 7Q

ATOM	881	CD1 LEU A 114	27.349	67.775	29.595	1.00	14.66	A	C
ATOM	882	CD2 LEU A 114	28.583	69.965	29.528	1.00	16.47	A	C
ATOM	883	C LEU A 114	28.536	69.684	34.006	1.00	12.89	A	C
ATOM	884	O LEU A 114	28.772	68.706	34.718	1.00	12.06	A	O
ATOM	885	N GLY A 115	27.873	70.745	34.451	1.00	13.97	A	N
ATOM	886	CA GLY A 115	27.403	70.763	35.822	1.00	12.19	A	C
ATOM	887	C GLY A 115	26.528	71.961	36.088	1.00	13.28	A	C
ATOM	888	O GLY A 115	26.171	72.696	35.160	1.00	14.73	A	O
ATOM	889	N THR A 116	26.167	72.153	37.351	1.00	11.11	A	N
ATOM	890	CA THR A 116	25.348	73.297	37.725	1.00	13.32	A	C
ATOM	891	CB THR A 116	24.866	73.197	39.170	1.00	11.37	A	C
ATOM	892	OG1 THR A 116	26.000	73.180	40.041	1.00	10.70	A	O
ATOM	893	CG2 THR A 116	24.036	71.939	39.367	1.00	10.35	A	C
ATOM	894	C THR A 116	26.195	74.554	37.614	1.00	14.14	A	C
ATOM	895	O THR A 116	27.416	74.482	37.431	1.00	14.71	A	O
ATOM	896	N LYS A 117	25.535	75.701	37.716	1.00	13.99	A	N
ATOM	897	CA LYS A 117	26.204	76.993	37.657	1.00	14.71	A	C
ATOM	898	CB LYS A 117	25.147	78.105	37.777	1.00	15.38	A	C
ATOM	899	CG LYS A 117	25.652	79.472	38.236	1.00	25.83	A	C
ATOM	900	CD LYS A 117	26.685	80.064	37.296	1.00	33.76	A	C
ATOM	901	CE LYS A 117	26.103	80.361	35.920	1.00	38.20	A	C
ATOM	902	NZ LYS A 117	27.105	81.002	35.015	1.00	42.09	A	N
ATOM	903	C LYS A 117	27.233	77.085	38.787	1.00	12.72	A	C
ATOM	904	O LYS A 117	28.356	77.549	38.588	1.00	11.82	A	O
ATOM	905	N ALA A 118	26.854	76.621	39.972	1.00	11.59	A	N
ATOM	906	CA ALA A 118	27.750	76.671	41.120	1.00	11.90	A	C
ATOM	907	CB ALA A 118	26.990	76.297	42.382	1.00	8.77	A	C
ATOM	908	C ALA A 118	28.965	75.758	40.955	1.00	13.39	A	C
ATOM	909	O ALA A 118	30.099	76.161	41.223	1.00	14.34	A	O
ATOM	910	N THR A 119	28.721	74.530	40.508	1.00	13.12	A	N
ATOM	911	CA THR A 119	29.789	73.561	40.316	1.00	12.85	A	C
ATOM	912	CB THR A 119	29.224	72.205	39.840	1.00	13.42	A	C
ATOM	913	OG1 THR A 119	28.398	71.647	40.869	1.00	11.57	A	O
ATOM	914	CG2 THR A 119	30.353	71.235	39.509	1.00	13.13	A	C
ATOM	915	C THR A 119	30.808	74.050	39.298	1.00	12.99	A	C
ATOM	916	O THR A 119	32.016	74.004	39.547	1.00	13.76	A	O
ATOM	917	N ILE A 120	30.323	74.520	38.154	1.00	11.88	A	N
ATOM	918	CA ILE A 120	31.213	75.003	37.103	1.00	13.74	A	C
ATOM	919	CB ILE A 120	30.419	75.310	35.807	1.00	13.41	A	C
ATOM	920	CG2 ILE A 120	31.321	75.980	34.769	1.00	14.31	A	C
ATOM	921	CG1 ILE A 120	29.799	74.012	35.266	1.00	14.49	A	C
ATOM	922	CD1 ILE A 120	30.786	72.862	35.086	1.00	12.48	A	C
ATOM	923	C ILE A 120	31.977	76.246	37.547	1.00	16.55	A	C
ATOM	924	O ILE A 120	33.192	76.337	37.372	1.00	18.38	A	O
ATOM	925	N GLN A 121	31.257	77.200	38.126	1.00	19.17	A	N
ATOM	926	CA GLN A 121	31.861	78.437	38.601	1.00	20.47	A	C
ATOM	927	CB GLN A 121	30.790	79.302	39.275	1.00	22.58	A	C
ATOM	928	CG GLN A 121	31.332	80.406	40.175	1.00	27.23	A	C
ATOM	929	CD GLN A 121	30.251	81.377	40.627	1.00	30.53	A	C
ATOM	930	OE1 GLN A 121	30.383	82.030	41.664	1.00	32.67	A	O
ATOM	931	NE2 GLN A 121	29.185	81.486	39.842	1.00	28.50	A	N
ATOM	932	C GLN A 121	33.012	78.170	39.570	1.00	20.02	A	C
ATOM	933	O GLN A 121	33.979	78.931	39.622	1.00	20.38	A	O
ATOM	934	N SER A 122	32.905	77.082	40.326	1.00	20.65	A	N
ATOM	935	CA SER A 122	33.919	76.709	41.311	1.00	19.01	A	C
ATOM	936	CB SER A 122	33.377	75.609	42.222	1.00	17.57	A	C
ATOM	937	OG SER A 122	33.446	74.356	41.556	1.00	13.49	A	O
ATOM	938	C SER A 122	35.220	76.201	40.686	1.00	18.75	A	C

Figure 7R

ATOM	939	O	SER A 122	36.270	76.232	41.325	1.00	17.22	A	O
ATOM	940	N	ASN A 123	35.136	75.709	39.454	1.00	18.64	A	N
ATOM	941	CA	ASN A 123	36.292	75.159	38.752	1.00	19.81	A	C
ATOM	942	CB	ASN A 123	37.355	76.237	38.538	1.00	23.62	A	C
ATOM	943	CG	ASN A 123	36.915	77.277	37.537	1.00	27.79	A	C
ATOM	944	OD1	ASN A 123	36.375	76.939	36.483	1.00	25.00	A	O
ATOM	945	ND2	ASN A 123	37.141	78.549	37.855	1.00	30.06	A	N
ATOM	946	C	ASN A 123	36.898	73.967	39.487	1.00	18.35	A	C
ATOM	947	O	ASN A 123	38.057	73.606	39.272	1.00	15.93	A	O
ATOM	948	N	ALA A 124	36.101	73.356	40.356	1.00	16.83	A	N
ATOM	949	CA	ALA A 124	36.550	72.197	41.113	1.00	18.02	A	C
ATOM	950	CB	ALA A 124	35.392	71.613	41.914	1.00	17.02	A	C
ATOM	951	C	ALA A 124	37.109	71.148	40.157	1.00	16.55	A	C
ATOM	952	O	ALA A 124	38.195	70.614	40.376	1.00	17.86	A	O
ATOM	953	N	TYR A 125	36.370	70.858	39.091	1.00	15.55	A	N
ATOM	954	CA	TYR A 125	36.817	69.870	38.121	1.00	15.38	A	C
ATOM	955	CB	TYR A 125	35.699	69.549	37.125	1.00	14.36	A	C
ATOM	956	CG	TYR A 125	34.638	68.609	37.662	1.00	15.54	A	C
ATOM	957	CD1	TYR A 125	33.460	69.096	38.226	1.00	13.69	A	C
ATOM	958	CE1	TYR A 125	32.478	68.230	38.701	1.00	16.51	A	C
ATOM	959	CD2	TYR A 125	34.813	67.224	37.591	1.00	15.03	A	C
ATOM	960	CE2	TYR A 125	33.839	66.349	38.064	1.00	16.83	A	C
ATOM	961	CZ	TYR A 125	32.677	66.857	38.614	1.00	15.95	A	C
ATOM	962	OH	TYR A 125	31.718	65.993	39.065	1.00	16.50	A	O
ATOM	963	C	TYR A 125	38.060	70.323	37.361	1.00	15.65	A	C
ATOM	964	O	TYR A 125	39.050	69.596	37.289	1.00	12.18	A	O
ATOM	965	N	ASP A 126	37.998	71.523	36.796	1.00	15.04	A	N
ATOM	966	CA	ASP A 126	39.110	72.080	36.032	1.00	19.15	A	C
ATOM	967	CB	ASP A 126	38.805	73.530	35.642	1.00	18.87	A	C
ATOM	968	CG	ASP A 126	37.532	73.659	34.831	1.00	21.01	A	C
ATOM	969	OD1	ASP A 126	36.489	73.129	35.271	1.00	22.54	A	O
ATOM	970	OD2	ASP A 126	37.570	74.295	33.756	1.00	22.03	A	O
ATOM	971	C	ASP A 126	40.423	72.028	36.814	1.00	19.26	A	C
ATOM	972	O	ASP A 126	41.432	71.519	36.316	1.00	19.31	A	O
ATOM	973	N	ASN A 127	40.406	72.542	38.040	1.00	18.32	A	N
ATOM	974	CA	ASN A 127	41.613	72.549	38.860	1.00	20.39	A	C
ATOM	975	CB	ASN A 127	41.349	73.226	40.206	1.00	19.27	A	C
ATOM	976	CG	ASN A 127	41.031	74.703	40.067	1.00	23.43	A	C
ATOM	977	OD1	ASN A 127	41.553	75.382	39.185	1.00	25.20	A	O
ATOM	978	ND2	ASN A 127	40.185	75.213	40.955	1.00	22.93	A	N
ATOM	979	C	ASN A 127	42.183	71.155	39.096	1.00	19.69	A	C
ATOM	980	O	ASN A 127	43.381	70.926	38.926	1.00	19.93	A	O
ATOM	981	N	ALA A 128	41.325	70.222	39.488	1.00	17.80	A	N
ATOM	982	CA	ALA A 128	41.767	68.862	39.742	1.00	19.25	A	C
ATOM	983	CB	ALA A 128	40.596	68.016	40.218	1.00	17.14	A	C
ATOM	984	C	ALA A 128	42.383	68.253	38.489	1.00	18.99	A	C
ATOM	985	O	ALA A 128	43.434	67.614	38.553	1.00	21.03	A	O
ATOM	986	N	LEU A 129	41.734	68.456	37.347	1.00	18.35	A	N
ATOM	987	CA	LEU A 129	42.237	67.911	36.088	1.00	18.37	A	C
ATOM	988	CB	LEU A 129	41.229	68.157	34.966	1.00	16.99	A	C
ATOM	989	CG	LEU A 129	39.944	67.331	35.044	1.00	17.37	A	C
ATOM	990	CD1	LEU A 129	38.906	67.908	34.101	1.00	18.55	A	C
ATOM	991	CD2	LEU A 129	40.247	65.878	34.690	1.00	19.31	A	C
ATOM	992	C	LEU A 129	43.586	68.512	35.709	1.00	18.69	A	C
ATOM	993	O	LEU A 129	44.486	67.799	35.264	1.00	16.61	A	O
ATOM	994	N	LYS A 130	43.722	69.823	35.881	1.00	20.51	A	N
ATOM	995	CA	LYS A 130	44.974	70.492	35.559	1.00	25.95	A	C
ATOM	996	CB	LYS A 130	44.869	72.002	35.815	1.00	29.56	A	C

Figure 7S

ATOM	997	CG	LYS A 130	44.065	72.756	34.766	1.00	35.38	A	C
ATOM	998	CD	LYS A 130	44.211	74.273	34.910	1.00	40.67	A	C
ATOM	999	CE	LYS A 130	43.491	74.796	36.138	1.00	44.58	A	C
ATOM	1000	NZ	LYS A 130	42.021	74.573	36.036	1.00	48.51	A	N
ATOM	1001	C	LYS A 130	46.084	69.899	36.413	1.00	27.20	A	C
ATOM	1002	O	LYS A 130	47.173	69.607	35.921	1.00	26.83	A	O
ATOM	1003	N	GLN A 131	45.793	69.711	37.695	1.00	27.73	A	N
ATOM	1004	CA	GLN A 131	46.768	69.152	38.615	1.00	30.51	A	C
ATOM	1005	CB	GLN A 131	46.168	69.058	40.017	1.00	34.61	A	C
ATOM	1006	CG	GLN A 131	47.164	68.658	41.086	1.00	44.44	A	C
ATOM	1007	CD	GLN A 131	46.499	68.364	42.414	1.00	49.85	A	C
ATOM	1008	OE1	GLN A 131	45.721	67.415	42.532	1.00	53.57	A	O
ATOM	1009	NE2	GLN A 131	46.797	69.181	43.423	1.00	52.59	A	N
ATOM	1010	C	GLN A 131	47.205	67.769	38.139	1.00	29.59	A	C
ATOM	1011	O	GLN A 131	48.333	67.347	38.389	1.00	27.34	A	O
ATOM	1012	N	GLN A 132	46.311	67.066	37.452	1.00	27.34	A	N
ATOM	1013	CA	GLN A 132	46.634	65.738	36.950	1.00	28.50	A	C
ATOM	1014	CB	GLN A 132	45.382	64.865	36.894	1.00	30.13	A	C
ATOM	1015	CG	GLN A 132	44.863	64.445	38.253	1.00	32.88	A	C
ATOM	1016	CD	GLN A 132	45.924	63.758	39.093	1.00	36.97	A	C
ATOM	1017	OE1	GLN A 132	46.545	62.787	38.659	1.00	36.12	A	O
ATOM	1018	NE2	GLN A 132	46.136	64.262	40.308	1.00	36.40	A	N
ATOM	1019	C	GLN A 132	47.297	65.764	35.579	1.00	26.54	A	C
ATOM	1020	O	GLN A 132	47.465	64.721	34.948	1.00	25.99	A	O
ATOM	1021	N	GLY A 133	47.653	66.958	35.113	1.00	25.65	A	N
ATOM	1022	CA	GLY A 133	48.326	67.079	33.833	1.00	25.61	A	C
ATOM	1023	C	GLY A 133	47.496	67.252	32.575	1.00	26.98	A	C
ATOM	1024	O	GLY A 133	48.061	67.293	31.479	1.00	25.64	A	O
ATOM	1025	N	TYR A 134	46.174	67.353	32.696	1.00	25.10	A	N
ATOM	1026	CA	TYR A 134	45.357	67.526	31.495	1.00	24.59	A	C
ATOM	1027	CB	TYR A 134	43.902	67.120	31.762	1.00	20.44	A	C
ATOM	1028	CG	TYR A 134	43.781	65.626	31.951	1.00	19.78	A	C
ATOM	1029	CD1	TYR A 134	43.870	65.050	33.219	1.00	21.76	A	C
ATOM	1030	CE1	TYR A 134	43.868	63.664	33.380	1.00	19.57	A	C
ATOM	1031	CD2	TYR A 134	43.681	64.774	30.850	1.00	19.08	A	C
ATOM	1032	CE2	TYR A 134	43.682	63.389	31.002	1.00	17.24	A	C
ATOM	1033	CZ	TYR A 134	43.777	62.842	32.265	1.00	18.47	A	C
ATOM	1034	OH	TYR A 134	43.792	61.473	32.413	1.00	19.23	A	O
ATOM	1035	C	TYR A 134	45.461	68.951	30.972	1.00	22.87	A	C
ATOM	1036	O	TYR A 134	45.446	69.908	31.746	1.00	22.48	A	O
ATOM	1037	N	LEU A 135	45.571	69.078	29.650	1.00	22.86	A	N
ATOM	1038	CA	LEU A 135	45.750	70.377	29.008	1.00	24.08	A	C
ATOM	1039	CB	LEU A 135	47.048	70.359	28.192	1.00	24.76	A	C
ATOM	1040	CG	LEU A 135	48.311	69.857	28.906	1.00	25.95	A	C
ATOM	1041	CD1	LEU A 135	49.461	69.790	27.913	1.00	27.98	A	C
ATOM	1042	CD2	LEU A 135	48.658	70.779	30.068	1.00	26.13	A	C
ATOM	1043	C	LEU A 135	44.628	70.873	28.107	1.00	23.53	A	C
ATOM	1044	O	LEU A 135	44.736	71.957	27.539	1.00	24.90	A	O
ATOM	1045	N	ASN A 136	43.556	70.100	27.970	1.00	22.37	A	N
ATOM	1046	CA	ASN A 136	42.450	70.499	27.102	1.00	20.74	A	C
ATOM	1047	CB	ASN A 136	42.411	69.585	25.876	1.00	21.50	A	C
ATOM	1048	CG	ASN A 136	41.613	70.170	24.735	1.00	23.18	A	C
ATOM	1049	OD1	ASN A 136	40.590	70.822	24.945	1.00	25.29	A	O
ATOM	1050	ND2	ASN A 136	42.068	69.923	23.511	1.00	23.17	A	N
ATOM	1051	C	ASN A 136	41.146	70.370	27.887	1.00	20.55	A	C
ATOM	1052	O	ASN A 136	40.430	69.386	27.744	1.00	20.93	A	O
ATOM	1053	N	ILE A 137	40.847	71.371	28.709	1.00	19.65	A	N
ATOM	1054	CA	ILE A 137	39.649	71.347	29.545	1.00	19.51	A	C

Figure 7T

ATOM	1055	CB	ILE A 137	40.021	71.504	31.032	1.00	19.77	A	C
ATOM	1056	CG2	ILE A 137	38.792	71.235	31.905	1.00	18.91	A	C
ATOM	1057	CG1	ILE A 137	41.165	70.548	31.388	1.00	17.50	A	C
ATOM	1058	CD1	ILE A 137	41.841	70.877	32.705	1.00	17.99	A	C
ATOM	1059	C	ILE A 137	38.650	72.445	29.214	1.00	18.94	A	C
ATOM	1060	O	ILE A 137	39.008	73.618	29.141	1.00	18.47	A	O
ATOM	1061	N	SER A 138	37.394	72.054	29.019	1.00	18.59	A	N
ATOM	1062	CA	SER A 138	36.319	73.000	28.729	1.00	19.77	A	C
ATOM	1063	CB	SER A 138	35.810	72.829	27.294	1.00	21.73	A	C
ATOM	1064	OG	SER A 138	36.823	73.104	26.345	1.00	24.47	A	O
ATOM	1065	C	SER A 138	35.177	72.716	29.698	1.00	19.64	A	C
ATOM	1066	O	SER A 138	34.971	71.569	30.102	1.00	20.10	A	O
ATOM	1067	N	HIS A 139	34.443	73.753	30.083	1.00	18.51	A	N
ATOM	1068	CA	HIS A 139	33.319	73.565	30.993	1.00	18.98	A	C
ATOM	1069	CB	HIS A 139	33.697	73.982	32.418	1.00	18.17	A	C
ATOM	1070	CG	HIS A 139	34.220	75.380	32.522	1.00	19.94	A	C
ATOM	1071	CD2	HIS A 139	33.634	76.575	32.268	1.00	20.85	A	C
ATOM	1072	ND1	HIS A 139	35.506	75.661	32.926	1.00	20.98	A	N
ATOM	1073	CE1	HIS A 139	35.692	76.970	32.916	1.00	24.03	A	C
ATOM	1074	NE2	HIS A 139	34.572	77.547	32.520	1.00	22.03	A	N
ATOM	1075	C	HIS A 139	32.082	74.329	30.552	1.00	18.46	A	C
ATOM	1076	O	HIS A 139	32.181	75.372	29.909	1.00	19.58	A	O
ATOM	1077	N	LEU A 140	30.918	73.791	30.902	1.00	18.71	A	N
ATOM	1078	CA	LEU A 140	29.634	74.403	30.573	1.00	19.01	A	C
ATOM	1079	CB	LEU A 140	29.028	73.775	29.316	1.00	20.85	A	C
ATOM	1080	CG	LEU A 140	29.476	74.190	27.918	1.00	22.92	A	C
ATOM	1081	CD1	LEU A 140	28.667	73.394	26.904	1.00	21.79	A	C
ATOM	1082	CD2	LEU A 140	29.255	75.688	27.709	1.00	25.42	A	C
ATOM	1083	C	LEU A 140	28.632	74.227	31.702	1.00	17.69	A	C
ATOM	1084	O	LEU A 140	28.422	73.118	32.194	1.00	17.06	A	O
ATOM	1085	N	ALA A 141	28.008	75.322	32.112	1.00	18.99	A	N
ATOM	1086	CA	ALA A 141	26.995	75.256	33.153	1.00	18.92	A	C
ATOM	1087	CB	ALA A 141	26.976	76.553	33.955	1.00	19.92	A	C
ATOM	1088	C	ALA A 141	25.653	75.046	32.456	1.00	20.05	A	C
ATOM	1089	O	ALA A 141	25.002	76.007	32.053	1.00	22.92	A	O
ATOM	1090	N	THR A 142	25.250	73.790	32.299	1.00	17.67	A	N
ATOM	1091	CA	THR A 142	23.983	73.456	31.650	1.00	15.92	A	C
ATOM	1092	CB	THR A 142	24.069	72.061	30.991	1.00	15.55	A	C
ATOM	1093	OG1	THR A 142	24.474	71.094	31.969	1.00	15.28	A	O
ATOM	1094	CG2	THR A 142	25.091	72.069	29.862	1.00	16.16	A	C
ATOM	1095	C	THR A 142	22.890	73.462	32.725	1.00	16.51	A	C
ATOM	1096	O	THR A 142	22.195	72.469	32.942	1.00	15.07	A	O
ATOM	1097	N	SER A 143	22.746	74.608	33.382	1.00	15.40	A	N
ATOM	1098	CA	SER A 143	21.797	74.779	34.479	1.00	16.69	A	C
ATOM	1099	CB	SER A 143	21.745	76.254	34.886	1.00	18.40	A	C
ATOM	1100	OG	SER A 143	20.979	76.419	36.068	1.00	19.14	A	O
ATOM	1101	C	SER A 143	20.374	74.259	34.266	1.00	16.28	A	C
ATOM	1102	O	SER A 143	19.838	73.555	35.119	1.00	17.50	A	O
ATOM	1103	N	LEU A 144	19.766	74.597	33.133	1.00	15.61	A	N
ATOM	1104	CA	LEU A 144	18.397	74.174	32.850	1.00	16.29	A	C
ATOM	1105	CB	LEU A 144	17.920	74.855	31.567	1.00	18.23	A	C
ATOM	1106	CG	LEU A 144	17.915	76.379	31.743	1.00	21.65	A	C
ATOM	1107	CD1	LEU A 144	17.543	77.079	30.440	1.00	21.02	A	C
ATOM	1108	CD2	LEU A 144	16.931	76.741	32.854	1.00	19.77	A	C
ATOM	1109	C	LEU A 144	18.171	72.657	32.772	1.00	15.16	A	C
ATOM	1110	O	LEU A 144	17.036	72.184	32.874	1.00	13.64	A	O
ATOM	1111	N	PHE A 145	19.238	71.888	32.600	1.00	13.93	A	N
ATOM	1112	CA	PHE A 145	19.080	70.437	32.545	1.00	11.95	A	C

Figure 7U

ATOM	1113	CB	PHE A 145	20.436	69.742	32.374	1.00	13.43	A	C
ATOM	1114	CG	PHE A 145	21.000	69.808	30.976	1.00	17.43	A	C
ATOM	1115	CD1	PHE A 145	22.248	69.260	30.703	1.00	15.45	A	C
ATOM	1116	CD2	PHE A 145	20.287	70.399	29.933	1.00	17.04	A	C
ATOM	1117	CE1	PHE A 145	22.783	69.295	29.420	1.00	18.35	A	C
ATOM	1118	CE2	PHE A 145	20.815	70.440	28.642	1.00	15.38	A	C
ATOM	1119	CZ	PHE A 145	22.064	69.889	28.385	1.00	16.89	A	C
ATOM	1120	C	PHE A 145	18.436	69.956	33.846	1.00	12.03	A	C
ATOM	1121	O	PHE A 145	17.600	69.064	33.839	1.00	11.95	A	O
ATOM	1122	N	VAL A 146	18.813	70.564	34.965	1.00	12.43	A	N
ATOM	1123	CA	VAL A 146	18.269	70.150	36.255	1.00	11.55	A	C
ATOM	1124	CB	VAL A 146	18.931	70.941	37.420	1.00	11.44	A	C
ATOM	1125	CG1	VAL A 146	18.203	70.669	38.739	1.00	12.27	A	C
ATOM	1126	CG2	VAL A 146	20.389	70.523	37.541	1.00	12.17	A	C
ATOM	1127	C	VAL A 146	16.741	70.243	36.344	1.00	13.17	A	C
ATOM	1128	O	VAL A 146	16.081	69.236	36.566	1.00	13.35	A	O
ATOM	1129	N	PRO A 147	16.157	71.442	36.168	1.00	14.55	A	N
ATOM	1130	CD	PRO A 147	16.725	72.794	36.014	1.00	12.51	A	C
ATOM	1131	CA	PRO A 147	14.693	71.491	36.260	1.00	15.45	A	C
ATOM	1132	CB	PRO A 147	14.386	72.995	36.197	1.00	16.91	A	C
ATOM	1133	CG	PRO A 147	15.556	73.569	35.463	1.00	13.21	A	C
ATOM	1134	C	PRO A 147	13.972	70.682	35.178	1.00	13.90	A	C
ATOM	1135	O	PRO A 147	12.910	70.111	35.433	1.00	15.62	A	O
ATOM	1136	N	LEU A 148	14.549	70.614	33.982	1.00	11.79	A	N
ATOM	1137	CA	LEU A 148	13.929	69.844	32.911	1.00	13.83	A	C
ATOM	1138	CB	LEU A 148	14.748	69.947	31.620	1.00	15.89	A	C
ATOM	1139	CG	LEU A 148	14.193	70.877	30.540	1.00	14.82	A	C
ATOM	1140	CD1	LEU A 148	14.146	72.296	31.057	1.00	18.80	A	C
ATOM	1141	CD2	LEU A 148	15.070	70.792	29.300	1.00	16.16	A	C
ATOM	1142	C	LEU A 148	13.833	68.389	33.336	1.00	13.84	A	C
ATOM	1143	O	LEU A 148	12.786	67.755	33.204	1.00	15.22	A	O
ATOM	1144	N	ILE A 149	14.935	67.872	33.861	1.00	12.81	A	N
ATOM	1145	CA	ILE A 149	14.985	66.493	34.312	1.00	13.21	A	C
ATOM	1146	CB	ILE A 149	16.425	66.111	34.703	1.00	14.51	A	C
ATOM	1147	CG2	ILE A 149	16.444	64.756	35.402	1.00	12.63	A	C
ATOM	1148	CG1	ILE A 149	17.291	66.093	33.434	1.00	15.10	A	C
ATOM	1149	CD1	ILE A 149	18.777	65.893	33.673	1.00	10.57	A	C
ATOM	1150	C	ILE A 149	14.026	66.258	35.470	1.00	14.45	A	C
ATOM	1151	O	ILE A 149	13.425	65.195	35.571	1.00	15.79	A	O
ATOM	1152	N	GLU A 150	13.859	67.256	36.328	1.00	14.06	A	N
ATOM	1153	CA	GLU A 150	12.943	67.121	37.449	1.00	15.01	A	C
ATOM	1154	CB	GLU A 150	13.206	68.228	38.466	1.00	18.77	A	C
ATOM	1155	CG	GLU A 150	14.447	67.930	39.291	1.00	26.06	A	C
ATOM	1156	CD	GLU A 150	14.824	69.044	40.227	1.00	28.16	A	C
ATOM	1157	OE1	GLU A 150	15.731	68.821	41.056	1.00	26.46	A	O
ATOM	1158	OE2	GLU A 150	14.222	70.138	40.128	1.00	31.52	A	O
ATOM	1159	C	GLU A 150	11.481	67.116	37.000	1.00	15.40	A	C
ATOM	1160	O	GLU A 150	10.615	66.617	37.719	1.00	14.17	A	O
ATOM	1161	N	GLU A 151	11.212	67.680	35.822	1.00	13.23	A	N
ATOM	1162	CA	GLU A 151	9.860	67.703	35.265	1.00	15.55	A	C
ATOM	1163	CB	GLU A 151	9.619	68.971	34.442	1.00	16.54	A	C
ATOM	1164	CG	GLU A 151	9.533	70.248	35.267	1.00	20.37	A	C
ATOM	1165	CD	GLU A 151	8.528	70.151	36.401	1.00	23.39	A	C
ATOM	1166	OE1	GLU A 151	7.332	69.901	36.134	1.00	24.54	A	O
ATOM	1167	OE2	GLU A 151	8.937	70.326	37.566	1.00	27.18	A	O
ATOM	1168	C	GLU A 151	9.687	66.487	34.368	1.00	17.22	A	C
ATOM	1169	O	GLU A 151	8.668	66.331	33.687	1.00	16.37	A	O
ATOM	1170	N	SER A 152	10.702	65.632	34.376	1.00	18.04	A	N

Figure 7V

ATOM	1171	CA	SER A 152	10.722	64.413	33.578	1.00	18.02	A	C
ATOM	1172	CB	SER A 152	9.559	63.493	33.949	1.00	19.94	A	C
ATOM	1173	OG	SER A 152	9.768	62.207	33.390	1.00	18.81	A	O
ATOM	1174	C	SER A 152	10.699	64.673	32.081	1.00	20.44	A	C
ATOM	1175	O	SER A 152	10.013	63.980	31.323	1.00	22.59	A	O
ATOM	1176	N	ILE A 153	11.443	65.682	31.653	1.00	19.73	A	N
ATOM	1177	CA	ILE A 153	11.541	65.998	30.239	1.00	21.13	A	C
ATOM	1178	CB	ILE A 153	11.541	67.521	30.016	1.00	23.26	A	C
ATOM	1179	CG2	ILE A 153	11.800	67.846	28.546	1.00	22.78	A	C
ATOM	1180	CG1	ILE A 153	10.190	68.086	30.474	1.00	25.17	A	C
ATOM	1181	CD1	ILE A 153	10.005	69.547	30.207	1.00	30.23	A	C
ATOM	1182	C	ILE A 153	12.865	65.372	29.832	1.00	21.67	A	C
ATOM	1183	O	ILE A 153	13.900	66.037	29.784	1.00	20.32	A	O
ATOM	1184	N	LEU A 154	12.811	64.069	29.565	1.00	18.75	A	N
ATOM	1185	CA	LEU A 154	13.986	63.281	29.218	1.00	20.85	A	C
ATOM	1186	CB	LEU A 154	13.939	61.972	30.003	1.00	21.22	A	C
ATOM	1187	CG	LEU A 154	13.540	62.197	31.467	1.00	22.53	A	C
ATOM	1188	CD1	LEU A 154	13.353	60.868	32.182	1.00	21.31	A	C
ATOM	1189	CD2	LEU A 154	14.604	63.040	32.154	1.00	20.71	A	C
ATOM	1190	C	LEU A 154	14.131	62.994	27.726	1.00	21.27	A	C
ATOM	1191	O	LEU A 154	14.969	62.194	27.313	1.00	20.75	A	O
ATOM	1192	N	GLU A 155	13.302	63.649	26.927	1.00	23.77	A	N
ATOM	1193	CA	GLU A 155	13.333	63.499	25.478	1.00	26.10	A	C
ATOM	1194	CB	GLU A 155	12.948	62.069	25.074	1.00	30.66	A	C
ATOM	1195	CG	GLU A 155	11.661	61.554	25.686	1.00	38.37	A	C
ATOM	1196	CD	GLU A 155	10.445	61.898	24.860	1.00	42.76	A	C
ATOM	1197	OE1	GLU A 155	9.322	61.571	25.299	1.00	48.12	A	O
ATOM	1198	OE2	GLU A 155	10.609	62.488	23.771	1.00	46.52	A	O
ATOM	1199	C	GLU A 155	12.366	64.517	24.893	1.00	24.72	A	C
ATOM	1200	O	GLU A 155	11.759	65.288	25.633	1.00	23.59	A	O
ATOM	1201	N	GLY A 156	12.236	64.538	23.573	1.00	23.02	A	N
ATOM	1202	CA	GLY A 156	11.333	65.492	22.958	1.00	21.08	A	C
ATOM	1203	C	GLY A 156	12.047	66.742	22.485	1.00	22.30	A	C
ATOM	1204	O	GLY A 156	13.243	66.925	22.728	1.00	21.15	A	O
ATOM	1205	N	GLU A 157	11.299	67.612	21.817	1.00	20.99	A	N
ATOM	1206	CA	GLU A 157	11.847	68.844	21.268	1.00	22.12	A	C
ATOM	1207	CB	GLU A 157	10.786	69.539	20.412	1.00	25.41	A	C
ATOM	1208	CG	GLU A 157	11.366	70.505	19.398	1.00	32.26	A	C
ATOM	1209	CD	GLU A 157	10.304	71.341	18.720	1.00	37.00	A	C
ATOM	1210	OE1	GLU A 157	9.332	70.758	18.186	1.00	41.42	A	O
ATOM	1211	OE2	GLU A 157	10.443	72.583	18.719	1.00	39.91	A	O
ATOM	1212	C	GLU A 157	12.386	69.835	22.302	1.00	19.65	A	C
ATOM	1213	O	GLU A 157	13.377	70.518	22.053	1.00	18.65	A	O
ATOM	1214	N	LEU A 158	11.734	69.925	23.453	1.00	18.49	A	N
ATOM	1215	CA	LEU A 158	12.172	70.861	24.485	1.00	20.02	A	C
ATOM	1216	CB	LEU A 158	11.174	70.870	25.653	1.00	19.53	A	C
ATOM	1217	CG	LEU A 158	11.410	71.891	26.773	1.00	21.01	A	C
ATOM	1218	CD1	LEU A 158	11.661	73.280	26.191	1.00	20.32	A	C
ATOM	1219	CD2	LEU A 158	10.197	71.910	27.697	1.00	19.63	A	C
ATOM	1220	C	LEU A 158	13.581	70.529	24.976	1.00	17.50	A	C
ATOM	1221	O	LEU A 158	14.424	71.417	25.101	1.00	17.99	A	O
ATOM	1222	N	LEU A 159	13.846	69.253	25.240	1.00	18.72	A	N
ATOM	1223	CA	LEU A 159	15.180	68.856	25.693	1.00	17.84	A	C
ATOM	1224	CB	LEU A 159	15.202	67.377	26.105	1.00	17.62	A	C
ATOM	1225	CG	LEU A 159	16.585	66.818	26.488	1.00	16.01	A	C
ATOM	1226	CD1	LEU A 159	17.125	67.557	27.713	1.00	16.76	A	C
ATOM	1227	CD2	LEU A 159	16.478	65.324	26.775	1.00	16.92	A	C
ATOM	1228	C	LEU A 159	16.185	69.091	24.571	1.00	18.06	A	C

Figure 7W

ATOM	1229	O	LEU A 159	17.274	69.629	24.792	1.00	15.90	A	O
ATOM	1230	N	GLU A 160	15.805	68.686	23.363	1.00	17.23	A	N
ATOM	1231	CA	GLU A 160	16.660	68.846	22.199	1.00	19.74	A	C
ATOM	1232	CB	GLU A 160	15.936	68.322	20.951	1.00	22.63	A	C
ATOM	1233	CG	GLU A 160	16.613	68.624	19.612	1.00	25.09	A	C
ATOM	1234	CD	GLU A 160	18.020	68.058	19.496	1.00	28.46	A	C
ATOM	1235	OE1	GLU A 160	18.320	67.041	20.156	1.00	24.99	A	O
ATOM	1236	OE2	GLU A 160	18.824	68.626	18.725	1.00	29.33	A	O
ATOM	1237	C	GLU A 160	17.025	70.316	22.023	1.00	17.75	A	C
ATOM	1238	O	GLU A 160	18.188	70.655	21.795	1.00	17.75	A	O
ATOM	1239	N	THR A 161	16.031	71.188	22.140	1.00	15.91	A	N
ATOM	1240	CA	THR A 161	16.274	72.615	21.984	1.00	17.08	A	C
ATOM	1241	CB	THR A 161	14.955	73.402	21.946	1.00	19.03	A	C
ATOM	1242	OG1	THR A 161	14.165	72.943	20.841	1.00	18.83	A	O
ATOM	1243	CG2	THR A 161	15.225	74.888	21.770	1.00	18.63	A	C
ATOM	1244	C	THR A 161	17.159	73.154	23.104	1.00	16.80	A	C
ATOM	1245	O	THR A 161	17.998	74.029	22.875	1.00	16.81	A	O
ATOM	1246	N	CYS A 162	16.977	72.623	24.309	1.00	15.47	A	N
ATOM	1247	CA	CYS A 162	17.772	73.054	25.451	1.00	16.48	A	C
ATOM	1248	CB	CYS A 162	17.217	72.456	26.748	1.00	17.44	A	C
ATOM	1249	SG	CYS A 162	17.994	73.125	28.246	1.00	17.16	A	S
ATOM	1250	C	CYS A 162	19.226	72.624	25.264	1.00	16.12	A	C
ATOM	1251	O	CYS A 162	20.148	73.390	25.547	1.00	15.64	A	O
ATOM	1252	N	MET A 163	19.433	71.395	24.797	1.00	16.12	A	N
ATOM	1253	CA	MET A 163	20.792	70.913	24.578	1.00	16.90	A	C
ATOM	1254	CB	MET A 163	20.796	69.446	24.152	1.00	17.54	A	C
ATOM	1255	CG	MET A 163	20.259	68.491	25.198	1.00	18.15	A	C
ATOM	1256	SD	MET A 163	20.679	66.775	24.864	1.00	18.78	A	S
ATOM	1257	CE	MET A 163	19.539	66.408	23.514	1.00	18.51	A	C
ATOM	1258	C	MET A 163	21.427	71.760	23.483	1.00	16.80	A	C
ATOM	1259	O	MET A 163	22.601	72.109	23.554	1.00	17.90	A	O
ATOM	1260	N	HIS A 164	20.637	72.083	22.467	1.00	17.35	A	N
ATOM	1261	CA	HIS A 164	21.119	72.893	21.359	1.00	18.77	A	C
ATOM	1262	CB	HIS A 164	20.009	73.065	20.317	1.00	21.03	A	C
ATOM	1263	CG	HIS A 164	20.451	73.784	19.082	1.00	26.61	A	C
ATOM	1264	CD2	HIS A 164	20.862	73.317	17.879	1.00	27.02	A	C
ATOM	1265	ND1	HIS A 164	20.559	75.156	19.018	1.00	26.82	A	N
ATOM	1266	CE1	HIS A 164	21.020	75.503	17.829	1.00	28.20	A	C
ATOM	1267	NE2	HIS A 164	21.212	74.406	17.119	1.00	26.69	A	N
ATOM	1268	C	HIS A 164	21.573	74.249	21.872	1.00	17.93	A	C
ATOM	1269	O	HIS A 164	22.630	74.758	21.483	1.00	18.32	A	O
ATOM	1270	N	TYR A 165	20.775	74.821	22.765	1.00	16.78	A	N
ATOM	1271	CA	TYR A 165	21.073	76.120	23.352	1.00	17.03	A	C
ATOM	1272	CB	TYR A 165	20.004	76.486	24.383	1.00	16.70	A	C
ATOM	1273	CG	TYR A 165	20.323	77.728	25.186	1.00	14.36	A	C
ATOM	1274	CD1	TYR A 165	20.249	78.998	24.611	1.00	18.03	A	C
ATOM	1275	CE1	TYR A 165	20.567	80.144	25.350	1.00	17.68	A	C
ATOM	1276	CD2	TYR A 165	20.722	77.633	26.518	1.00	15.98	A	C
ATOM	1277	CE2	TYR A 165	21.042	78.767	27.263	1.00	15.67	A	C
ATOM	1278	CZ	TYR A 165	20.964	80.015	26.675	1.00	17.67	A	C
ATOM	1279	OH	TYR A 165	21.296	81.128	27.414	1.00	19.35	A	O
ATOM	1280	C	TYR A 165	22.440	76.144	24.025	1.00	18.18	A	C
ATOM	1281	O	TYR A 165	23.202	77.089	23.848	1.00	18.56	A	O
ATOM	1282	N	TYR A 166	22.745	75.101	24.795	1.00	16.65	A	N
ATOM	1283	CA	TYR A 166	24.016	75.022	25.516	1.00	16.14	A	C
ATOM	1284	CB	TYR A 166	23.879	74.113	26.745	1.00	15.22	A	C
ATOM	1285	CG	TYR A 166	23.063	74.681	27.887	1.00	14.44	A	C
ATOM	1286	CD1	TYR A 166	21.955	73.994	28.380	1.00	13.39	A	C

Figure 7X

ATOM	1287	CE1 TYR A 166	21.202	74.506	29.438	1.00	14.31	A	C
ATOM	1288	CD2 TYR A 166	23.403	75.898	28.481	1.00	14.07	A	C
ATOM	1289	CE2 TYR A 166	22.660	76.419	29.537	1.00	13.27	A	C
ATOM	1290	CZ TYR A 166	21.558	75.717	30.008	1.00	15.59	A	C
ATOM	1291	OH TYR A 166	20.800	76.228	31.033	1.00	13.70	A	O
ATOM	1292	C TYR A 166	25.207	74.520	24.710	1.00	16.15	A	C
ATOM	1293	O TYR A 166	26.320	75.020	24.862	1.00	18.32	A	O
ATOM	1294	N PHE A 167	24.977	73.532	23.858	1.00	16.40	A	N
ATOM	1295	CA PHE A 167	26.063	72.926	23.099	1.00	19.32	A	C
ATOM	1296	CB PHE A 167	25.696	71.466	22.811	1.00	18.55	A	C
ATOM	1297	CG PHE A 167	25.487	70.633	24.056	1.00	17.57	A	C
ATOM	1298	CD1 PHE A 167	24.611	69.551	24.044	1.00	17.73	A	C
ATOM	1299	CD2 PHE A 167	26.179	70.920	25.232	1.00	17.53	A	C
ATOM	1300	CE1 PHE A 167	24.429	68.766	25.186	1.00	17.59	A	C
ATOM	1301	CE2 PHE A 167	26.005	70.140	26.378	1.00	15.09	A	C
ATOM	1302	CZ PHE A 167	25.130	69.063	26.354	1.00	15.31	A	C
ATOM	1303	C PHE A 167	26.517	73.613	21.810	1.00	21.91	A	C
ATOM	1304	O PHE A 167	27.693	73.529	21.444	1.00	18.63	A	O
ATOM	1305	N THR A 168	25.600	74.293	21.128	1.00	23.53	A	N
ATOM	1306	CA THR A 168	25.940	74.958	19.871	1.00	25.11	A	C
ATOM	1307	CB THR A 168	24.757	75.788	19.346	1.00	24.47	A	C
ATOM	1308	OG1 THR A 168	23.646	74.919	19.099	1.00	28.03	A	O
ATOM	1309	CG2 THR A 168	25.133	76.488	18.048	1.00	28.49	A	C
ATOM	1310	C THR A 168	27.182	75.849	19.920	1.00	24.43	A	C
ATOM	1311	O THR A 168	27.989	75.836	18.995	1.00	26.62	A	O
ATOM	1312	N PRO A 169	27.347	76.640	20.992	1.00	25.87	A	N
ATOM	1313	CD PRO A 169	26.337	76.983	22.009	1.00	23.89	A	C
ATOM	1314	CA PRO A 169	28.512	77.523	21.113	1.00	28.42	A	C
ATOM	1315	CB PRO A 169	28.198	78.329	22.372	1.00	25.95	A	C
ATOM	1316	CG PRO A 169	26.709	78.406	22.351	1.00	26.22	A	C
ATOM	1317	C PRO A 169	29.868	76.813	21.210	1.00	30.41	A	C
ATOM	1318	O PRO A 169	30.914	77.440	21.035	1.00	30.45	A	O
ATOM	1319	N LEU A 170	29.853	75.512	21.487	1.00	32.27	A	N
ATOM	1320	CA LEU A 170	31.094	74.755	21.611	1.00	34.59	A	C
ATOM	1321	CB LEU A 170	30.808	73.338	22.098	1.00	33.83	A	C
ATOM	1322	CG LEU A 170	30.417	73.202	23.568	1.00	32.01	A	C
ATOM	1323	CD1 LEU A 170	30.035	71.760	23.848	1.00	29.69	A	C
ATOM	1324	CD2 LEU A 170	31.579	73.641	24.458	1.00	29.22	A	C
ATOM	1325	C LEU A 170	31.897	74.677	20.323	1.00	37.74	A	C
ATOM	1326	O LEU A 170	31.358	74.386	19.254	1.00	39.31	A	O
ATOM	1327	N GLU A 171	33.197	74.924	20.434	1.00	40.03	A	N
ATOM	1328	CA GLU A 171	34.076	74.871	19.276	1.00	43.34	A	C
ATOM	1329	CB GLU A 171	34.750	76.229	19.067	1.00	48.27	A	C
ATOM	1330	CG GLU A 171	33.759	77.349	18.782	1.00	54.56	A	C
ATOM	1331	CD GLU A 171	33.072	77.200	17.431	1.00	59.45	A	C
ATOM	1332	OE1 GLU A 171	32.919	76.051	16.953	1.00	60.27	A	O
ATOM	1333	OE2 GLU A 171	32.672	78.237	16.852	1.00	61.77	A	O
ATOM	1334	C GLU A 171	35.120	73.777	19.447	1.00	42.59	A	C
ATOM	1335	O GLU A 171	36.239	73.888	18.951	1.00	43.77	A	O
ATOM	1336	N ILE A 172	34.741	72.717	20.155	1.00	40.35	A	N
ATOM	1337	CA ILE A 172	35.636	71.589	20.391	1.00	38.22	A	C
ATOM	1338	CB ILE A 172	36.155	71.569	21.842	1.00	37.75	A	C
ATOM	1339	CG2 ILE A 172	36.806	72.901	22.184	1.00	34.13	A	C
ATOM	1340	CG1 ILE A 172	34.997	71.276	22.797	1.00	36.28	A	C
ATOM	1341	CD1 ILE A 172	35.430	70.993	24.225	1.00	40.90	A	C
ATOM	1342	C ILE A 172	34.911	70.272	20.145	1.00	36.42	A	C
ATOM	1343	O ILE A 172	33.688	70.200	20.222	1.00	39.20	A	O
ATOM	1344	N LEU A 173	35.674	69.231	19.838	1.00	34.80	A	N

Figure 7Y

ATOM	1345	CA	LEU A 173	35.104	67.910	19.612	1.00	32.15	A	C
ATOM	1346	CB	LEU A 173	35.718	67.265	18.363	1.00	33.04	A	C
ATOM	1347	CG	LEU A 173	35.480	67.998	17.037	1.00	34.61	A	C
ATOM	1348	CD1	LEU A 173	36.221	67.290	15.910	1.00	33.74	A	C
ATOM	1349	CD2	LEU A 173	33.979	68.056	16.747	1.00	34.77	A	C
ATOM	1350	C	LEU A 173	35.454	67.102	20.855	1.00	29.45	A	C
ATOM	1351	O	LEU A 173	36.481	66.424	20.896	1.00	27.62	A	O
ATOM	1352	N	PRO A 174	34.598	67.167	21.891	1.00	27.18	A	N
ATOM	1353	CD	PRO A 174	33.272	67.811	21.931	1.00	26.43	A	C
ATOM	1354	CA	PRO A 174	34.858	66.432	23.132	1.00	24.33	A	C
ATOM	1355	CB	PRO A 174	33.646	66.772	24.003	1.00	25.04	A	C
ATOM	1356	CG	PRO A 174	32.560	67.015	22.997	1.00	27.39	A	C
ATOM	1357	C	PRO A 174	35.067	64.934	22.991	1.00	21.39	A	C
ATOM	1358	O	PRO A 174	34.335	64.250	22.277	1.00	22.17	A	O
ATOM	1359	N	GLU A 175	36.088	64.438	23.679	1.00	19.42	A	N
ATOM	1360	CA	GLU A 175	36.405	63.021	23.683	1.00	19.85	A	C
ATOM	1361	CB	GLU A 175	37.905	62.821	23.465	1.00	21.90	A	C
ATOM	1362	CG	GLU A 175	38.320	62.869	21.999	1.00	27.70	A	C
ATOM	1363	CD	GLU A 175	39.823	62.943	21.802	1.00	27.64	A	C
ATOM	1364	OE1	GLU A 175	40.565	62.242	22.523	1.00	28.19	A	O
ATOM	1365	OE2	GLU A 175	40.260	63.701	20.913	1.00	30.42	A	O
ATOM	1366	C	GLU A 175	35.983	62.473	25.044	1.00	19.80	A	C
ATOM	1367	O	GLU A 175	35.855	61.263	25.239	1.00	19.75	A	O
ATOM	1368	N	VAL A 176	35.762	63.383	25.986	1.00	18.80	A	N
ATOM	1369	CA	VAL A 176	35.349	63.006	27.330	1.00	17.58	A	C
ATOM	1370	CB	VAL A 176	36.550	62.981	28.313	1.00	16.92	A	C
ATOM	1371	CG1	VAL A 176	36.091	62.488	29.676	1.00	15.99	A	C
ATOM	1372	CG2	VAL A 176	37.661	62.087	27.772	1.00	16.67	A	C
ATOM	1373	C	VAL A 176	34.330	64.014	27.840	1.00	16.96	A	C
ATOM	1374	O	VAL A 176	34.533	65.224	27.746	1.00	17.95	A	O
ATOM	1375	N	ILE A 177	33.222	63.509	28.362	1.00	17.35	A	N
ATOM	1376	CA	ILE A 177	32.184	64.373	28.902	1.00	15.36	A	C
ATOM	1377	CB	ILE A 177	30.873	64.272	28.100	1.00	15.94	A	C
ATOM	1378	CG2	ILE A 177	29.805	65.149	28.759	1.00	14.07	A	C
ATOM	1379	CG1	ILE A 177	31.113	64.699	26.647	1.00	17.19	A	C
ATOM	1380	CD1	ILE A 177	29.880	64.597	25.748	1.00	18.12	A	C
ATOM	1381	C	ILE A 177	31.896	63.970	30.334	1.00	14.25	A	C
ATOM	1382	O	ILE A 177	31.499	62.833	30.609	1.00	15.75	A	O
ATOM	1383	N	ILE A 178	32.108	64.900	31.253	1.00	14.90	A	N
ATOM	1384	CA	ILE A 178	31.841	64.618	32.647	1.00	12.36	A	C
ATOM	1385	CB	ILE A 178	32.770	65.419	33.573	1.00	14.08	A	C
ATOM	1386	CG2	ILE A 178	32.465	65.085	35.026	1.00	10.97	A	C
ATOM	1387	CG1	ILE A 178	34.229	65.095	33.248	1.00	13.91	A	C
ATOM	1388	CD1	ILE A 178	35.235	65.846	34.106	1.00	13.08	A	C
ATOM	1389	C	ILE A 178	30.396	64.988	32.950	1.00	12.88	A	C
ATOM	1390	O	ILE A 178	29.949	66.103	32.671	1.00	13.50	A	O
ATOM	1391	N	LEU A 179	29.659	64.038	33.506	1.00	12.90	A	N
ATOM	1392	CA	LEU A 179	28.270	64.288	33.867	1.00	14.35	A	C
ATOM	1393	CB	LEU A 179	27.465	62.992	33.717	1.00	14.31	A	C
ATOM	1394	CG	LEU A 179	27.542	62.418	32.298	1.00	15.12	A	C
ATOM	1395	CD1	LEU A 179	26.919	61.033	32.251	1.00	20.10	A	C
ATOM	1396	CD2	LEU A 179	26.844	63.361	31.336	1.00	20.25	A	C
ATOM	1397	C	LEU A 179	28.320	64.760	35.319	1.00	13.67	A	C
ATOM	1398	O	LEU A 179	27.829	64.085	36.224	1.00	15.54	A	O
ATOM	1399	N	GLY A 180	28.930	65.931	35.512	1.00	11.65	A	N
ATOM	1400	CA	GLY A 180	29.117	66.517	36.834	1.00	12.90	A	C
ATOM	1401	C	GLY A 180	27.910	67.040	37.593	1.00	10.74	A	C
ATOM	1402	O	GLY A 180	27.955	68.116	38.191	1.00	12.43	A	O

Figure 7Z

ATOM	1403	N	CYS A 181	26.835	66.267	37.589	1.00	11.19	A	N
ATOM	1404	CA	CYS A 181	25.608	66.640	38.287	1.00	12.85	A	C
ATOM	1405	CB	CYS A 181	24.832	67.662	37.455	1.00	10.63	A	C
ATOM	1406	SG	CYS A 181	23.232	68.156	38.139	1.00	12.80	A	S
ATOM	1407	C	CYS A 181	24.769	65.379	38.482	1.00	10.40	A	C
ATOM	1408	O	CYS A 181	24.655	64.567	37.565	1.00	12.33	A	O
ATOM	1409	N	THR A 182	24.195	65.218	39.673	1.00	11.84	A	N
ATOM	1410	CA	THR A 182	23.374	64.050	39.993	1.00	10.35	A	C
ATOM	1411	CB	THR A 182	22.661	64.207	41.363	1.00	10.67	A	C
ATOM	1412	OG1	THR A 182	21.912	65.435	41.381	1.00	8.58	A	O
ATOM	1413	CG2	THR A 182	23.672	64.197	42.500	1.00	7.64	A	C
ATOM	1414	C	THR A 182	22.283	63.760	38.966	1.00	11.06	A	C
ATOM	1415	O	THR A 182	21.936	62.610	38.733	1.00	10.76	A	O
ATOM	1416	N	HIS A 183	21.739	64.810	38.364	1.00	9.82	A	N
ATOM	1417	CA	HIS A 183	20.649	64.666	37.400	1.00	12.23	A	C
ATOM	1418	CB	HIS A 183	19.884	65.990	37.276	1.00	10.20	A	C
ATOM	1419	CG	HIS A 183	19.136	66.386	38.510	1.00	10.97	A	C
ATOM	1420	CD2	HIS A 183	17.905	66.930	38.668	1.00	7.50	A	C
ATOM	1421	ND1	HIS A 183	19.677	66.290	39.774	1.00	11.77	A	N
ATOM	1422	CE1	HIS A 183	18.812	66.758	40.658	1.00	10.61	A	C
ATOM	1423	NE2	HIS A 183	17.729	67.154	40.012	1.00	10.59	A	N
ATOM	1424	C	HIS A 183	21.020	64.221	35.990	1.00	10.73	A	C
ATOM	1425	O	HIS A 183	20.228	63.569	35.323	1.00	12.38	A	O
ATOM	1426	N	PHE A 184	22.221	64.570	35.545	1.00	12.86	A	N
ATOM	1427	CA	PHE A 184	22.645	64.280	34.180	1.00	12.13	A	C
ATOM	1428	CB	PHE A 184	23.988	64.976	33.925	1.00	11.91	A	C
ATOM	1429	CG	PHE A 184	23.927	66.488	34.096	1.00	11.77	A	C
ATOM	1430	CD1	PHE A 184	25.057	67.276	33.896	1.00	13.67	A	C
ATOM	1431	CD2	PHE A 184	22.739	67.116	34.482	1.00	9.45	A	C
ATOM	1432	CE1	PHE A 184	25.009	68.666	34.081	1.00	11.33	A	C
ATOM	1433	CE2	PHE A 184	22.681	68.502	34.670	1.00	12.83	A	C
ATOM	1434	CZ	PHE A 184	23.819	69.278	34.469	1.00	9.95	A	C
ATOM	1435	C	PHE A 184	22.655	62.833	33.670	1.00	12.53	A	C
ATOM	1436	O	PHE A 184	22.429	62.596	32.481	1.00	14.09	A	O
ATOM	1437	N	PRO A 185	22.902	61.847	34.545	1.00	13.81	A	N
ATOM	1438	CD	PRO A 185	23.442	61.881	35.918	1.00	14.48	A	C
ATOM	1439	CA	PRO A 185	22.893	60.475	34.026	1.00	13.96	A	C
ATOM	1440	CB	PRO A 185	23.165	59.640	35.275	1.00	14.58	A	C
ATOM	1441	CG	PRO A 185	24.112	60.522	36.032	1.00	12.13	A	C
ATOM	1442	C	PRO A 185	21.554	60.121	33.367	1.00	15.04	A	C
ATOM	1443	O	PRO A 185	21.492	59.261	32.489	1.00	13.75	A	O
ATOM	1444	N	LEU A 186	20.485	60.790	33.791	1.00	13.98	A	N
ATOM	1445	CA	LEU A 186	19.156	60.525	33.243	1.00	13.19	A	C
ATOM	1446	CB	LEU A 186	18.080	61.193	34.108	1.00	13.71	A	C
ATOM	1447	CG	LEU A 186	17.634	60.379	35.334	1.00	15.55	A	C
ATOM	1448	CD1	LEU A 186	18.802	60.174	36.288	1.00	18.92	A	C
ATOM	1449	CD2	LEU A 186	16.493	61.099	36.027	1.00	14.26	A	C
ATOM	1450	C	LEU A 186	18.982	60.931	31.778	1.00	14.41	A	C
ATOM	1451	O	LEU A 186	18.010	60.533	31.137	1.00	14.59	A	O
ATOM	1452	N	ILE A 187	19.905	61.734	31.255	1.00	14.30	A	N
ATOM	1453	CA	ILE A 187	19.854	62.140	29.849	1.00	14.33	A	C
ATOM	1454	CB	ILE A 187	19.485	63.633	29.667	1.00	13.17	A	C
ATOM	1455	CG2	ILE A 187	18.052	63.871	30.096	1.00	11.03	A	C
ATOM	1456	CG1	ILE A 187	20.446	64.523	30.453	1.00	12.17	A	C
ATOM	1457	CD1	ILE A 187	20.256	66.011	30.170	1.00	14.07	A	C
ATOM	1458	C	ILE A 187	21.197	61.890	29.168	1.00	14.64	A	C
ATOM	1459	O	ILE A 187	21.487	62.447	28.108	1.00	13.68	A	O
ATOM	1460	N	ALA A 188	22.008	61.035	29.781	1.00	15.37	A	N

Figure 7AA

ATOM	1461	CA	ALA A 188	23.322	60.707	29.243	1.00	16.86	A	C
ATOM	1462	CB	ALA A 188	23.965	59.607	30.075	1.00	15.17	A	C
ATOM	1463	C	ALA A 188	23.244	60.280	27.776	1.00	17.17	A	C
ATOM	1464	O	ALA A 188	23.979	60.797	26.938	1.00	15.74	A	O
ATOM	1465	N	GLN A 189	22.353	59.340	27.470	1.00	17.32	A	N
ATOM	1466	CA	GLN A 189	22.203	58.857	26.101	1.00	18.82	A	C
ATOM	1467	CB	GLN A 189	21.162	57.741	26.050	1.00	23.61	A	C
ATOM	1468	CG	GLN A 189	21.199	56.919	24.774	1.00	30.80	A	C
ATOM	1469	CD	GLN A 189	22.592	56.391	24.458	1.00	36.03	A	C
ATOM	1470	OE1	GLN A 189	23.321	55.942	25.347	1.00	36.39	A	O
ATOM	1471	NE2	GLN A 189	22.965	56.435	23.184	1.00	38.93	A	N
ATOM	1472	C	GLN A 189	21.794	59.995	25.169	1.00	17.49	A	C
ATOM	1473	O	GLN A 189	22.280	60.092	24.041	1.00	17.22	A	O
ATOM	1474	N	LYS A 190	20.894	60.851	25.639	1.00	17.64	A	N
ATOM	1475	CA	LYS A 190	20.449	61.986	24.841	1.00	16.93	A	C
ATOM	1476	CB	LYS A 190	19.338	62.750	25.565	1.00	17.51	A	C
ATOM	1477	CG	LYS A 190	17.998	62.038	25.578	1.00	21.98	A	C
ATOM	1478	CD	LYS A 190	17.462	61.852	24.166	1.00	25.56	A	C
ATOM	1479	CE	LYS A 190	16.064	61.256	24.188	1.00	30.02	A	C
ATOM	1480	NZ	LYS A 190	15.428	61.242	22.839	1.00	32.59	A	N
ATOM	1481	C	LYS A 190	21.624	62.919	24.572	1.00	17.12	A	C
ATOM	1482	O	LYS A 190	21.755	63.468	23.481	1.00	19.51	A	O
ATOM	1483	N	ILE A 191	22.483	63.097	25.570	1.00	15.92	A	N
ATOM	1484	CA	ILE A 191	23.643	63.963	25.413	1.00	15.53	A	C
ATOM	1485	CB	ILE A 191	24.348	64.194	26.769	1.00	16.74	A	C
ATOM	1486	CG2	ILE A 191	25.698	64.877	26.558	1.00	17.54	A	C
ATOM	1487	CG1	ILE A 191	23.447	65.048	27.668	1.00	16.67	A	C
ATOM	1488	CD1	ILE A 191	24.051	65.372	29.014	1.00	17.95	A	C
ATOM	1489	C	ILE A 191	24.615	63.350	24.413	1.00	17.26	A	C
ATOM	1490	O	ILE A 191	25.099	64.027	23.508	1.00	16.51	A	O
ATOM	1491	N	GLU A 192	24.892	62.062	24.566	1.00	17.44	A	N
ATOM	1492	CA	GLU A 192	25.792	61.387	23.643	1.00	18.42	A	C
ATOM	1493	CB	GLU A 192	25.937	59.909	24.007	1.00	20.11	A	C
ATOM	1494	CG	GLU A 192	26.885	59.159	23.085	1.00	26.76	A	C
ATOM	1495	CD	GLU A 192	26.872	57.665	23.322	1.00	32.66	A	C
ATOM	1496	OE1	GLU A 192	25.884	57.005	22.936	1.00	37.07	A	O
ATOM	1497	OE2	GLU A 192	27.846	57.152	23.906	1.00	37.14	A	O
ATOM	1498	C	GLU A 192	25.209	61.499	22.241	1.00	17.46	A	C
ATOM	1499	O	GLU A 192	25.912	61.804	21.283	1.00	15.49	A	O
ATOM	1500	N	GLY A 193	23.910	61.249	22.136	1.00	19.60	A	N
ATOM	1501	CA	GLY A 193	23.247	61.319	20.851	1.00	18.22	A	C
ATOM	1502	C	GLY A 193	23.344	62.683	20.199	1.00	20.98	A	C
ATOM	1503	O	GLY A 193	23.518	62.781	18.983	1.00	19.02	A	O
ATOM	1504	N	TYR A 194	23.230	63.742	20.997	1.00	19.99	A	N
ATOM	1505	CA	TYR A 194	23.302	65.087	20.450	1.00	19.30	A	C
ATOM	1506	CB	TYR A 194	23.081	66.136	21.545	1.00	21.79	A	C
ATOM	1507	CG	TYR A 194	23.038	67.544	20.997	1.00	22.73	A	C
ATOM	1508	CD1	TYR A 194	21.822	68.170	20.713	1.00	25.33	A	C
ATOM	1509	CE1	TYR A 194	21.784	69.442	20.133	1.00	26.15	A	C
ATOM	1510	CD2	TYR A 194	24.216	68.226	20.692	1.00	24.23	A	C
ATOM	1511	CE2	TYR A 194	24.190	69.493	20.109	1.00	23.26	A	C
ATOM	1512	CZ	TYR A 194	22.973	70.092	19.830	1.00	25.26	A	C
ATOM	1513	OH	TYR A 194	22.941	71.327	19.222	1.00	28.86	A	O
ATOM	1514	C	TYR A 194	24.660	65.313	19.788	1.00	20.71	A	C
ATOM	1515	O	TYR A 194	24.738	65.782	18.653	1.00	18.94	A	O
ATOM	1516	N	PHE A 195	25.732	64.980	20.496	1.00	19.26	A	N
ATOM	1517	CA	PHE A 195	27.062	65.169	19.942	1.00	21.38	A	C
ATOM	1518	CB	PHE A 195	28.126	64.952	21.020	1.00	20.73	A	C

Figure 7BB

ATOM	1519	CG	PHE A 195	28.251	66.103	21.971	1.00	20.61	A	C
ATOM	1520	CD1	PHE A 195	27.488	66.158	23.131	1.00	19.23	A	C
ATOM	1521	CD2	PHE A 195	29.097	67.165	21.673	1.00	21.43	A	C
ATOM	1522	CE1	PHE A 195	27.565	67.263	23.986	1.00	20.28	A	C
ATOM	1523	CE2	PHE A 195	29.183	68.273	22.515	1.00	18.52	A	C
ATOM	1524	CZ	PHE A 195	28.416	68.323	23.673	1.00	19.62	A	C
ATOM	1525	C	PHE A 195	27.352	64.290	18.730	1.00	21.31	A	C
ATOM	1526	O	PHE A 195	28.045	64.713	17.806	1.00	21.45	A	O
ATOM	1527	N	MET A 196	26.822	63.072	18.720	1.00	22.22	A	N
ATOM	1528	CA	MET A 196	27.059	62.190	17.584	1.00	24.31	A	C
ATOM	1529	CB	MET A 196	26.655	60.749	17.915	1.00	25.67	A	C
ATOM	1530	CG	MET A 196	27.528	60.084	18.971	1.00	26.49	A	C
ATOM	1531	SD	MET A 196	29.295	60.205	18.575	1.00	30.70	A	S
ATOM	1532	CE	MET A 196	29.481	58.865	17.401	1.00	31.02	A	C
ATOM	1533	C	MET A 196	26.293	62.667	16.354	1.00	25.42	A	C
ATOM	1534	O	MET A 196	26.734	62.451	15.227	1.00	23.73	A	O
ATOM	1535	N	GLY A 197	25.157	63.328	16.571	1.00	25.90	A	N
ATOM	1536	CA	GLY A 197	24.361	63.805	15.451	1.00	26.44	A	C
ATOM	1537	C	GLY A 197	24.566	65.258	15.054	1.00	29.06	A	C
ATOM	1538	O	GLY A 197	24.129	65.681	13.981	1.00	30.51	A	O
ATOM	1539	N	HIS A 198	25.233	66.030	15.903	1.00	27.75	A	N
ATOM	1540	CA	HIS A 198	25.456	67.441	15.612	1.00	28.55	A	C
ATOM	1541	CB	HIS A 198	24.824	68.293	16.705	1.00	28.88	A	C
ATOM	1542	CG	HIS A 198	23.330	68.234	16.718	1.00	26.12	A	C
ATOM	1543	CD2	HIS A 198	22.470	67.535	17.495	1.00	26.28	A	C
ATOM	1544	ND1	HIS A 198	22.553	68.943	15.828	1.00	27.58	A	N
ATOM	1545	CE1	HIS A 198	21.277	68.687	16.060	1.00	27.01	A	C
ATOM	1546	NE2	HIS A 198	21.200	67.835	17.066	1.00	26.83	A	N
ATOM	1547	C	HIS A 198	26.923	67.792	15.457	1.00	30.79	A	C
ATOM	1548	O	HIS A 198	27.270	68.941	15.180	1.00	32.29	A	O
ATOM	1549	N	PHE A 199	27.785	66.800	15.644	1.00	30.80	A	N
ATOM	1550	CA	PHE A 199	29.220	66.999	15.498	1.00	33.66	A	C
ATOM	1551	CB	PHE A 199	29.906	67.052	16.866	1.00	35.46	A	C
ATOM	1552	CG	PHE A 199	29.565	68.275	17.676	1.00	39.04	A	C
ATOM	1553	CD1	PHE A 199	28.281	68.463	18.182	1.00	39.24	A	C
ATOM	1554	CD2	PHE A 199	30.537	69.237	17.945	1.00	40.88	A	C
ATOM	1555	CE1	PHE A 199	27.968	69.591	18.944	1.00	40.57	A	C
ATOM	1556	CE2	PHE A 199	30.236	70.370	18.707	1.00	42.99	A	C
ATOM	1557	CZ	PHE A 199	28.948	70.547	19.207	1.00	40.25	A	C
ATOM	1558	C	PHE A 199	29.790	65.855	14.673	1.00	32.87	A	C
ATOM	1559	O	PHE A 199	29.170	64.798	14.547	1.00	32.00	A	O
ATOM	1560	N	ALA A 200	30.972	66.064	14.108	1.00	34.09	A	N
ATOM	1561	CA	ALA A 200	31.605	65.040	13.288	1.00	34.34	A	C
ATOM	1562	CB	ALA A 200	32.381	65.690	12.154	1.00	35.22	A	C
ATOM	1563	C	ALA A 200	32.532	64.168	14.119	1.00	34.93	A	C
ATOM	1564	O	ALA A 200	33.704	63.996	13.782	1.00	35.08	A	O
ATOM	1565	N	LEU A 201	32.012	63.618	15.209	1.00	34.85	A	N
ATOM	1566	CA	LEU A 201	32.821	62.765	16.067	1.00	34.78	A	C
ATOM	1567	CB	LEU A 201	32.210	62.690	17.472	1.00	35.79	A	C
ATOM	1568	CG	LEU A 201	32.120	64.015	18.231	1.00	35.31	A	C
ATOM	1569	CD1	LEU A 201	31.513	63.760	19.603	1.00	35.13	A	C
ATOM	1570	CD2	LEU A 201	33.498	64.641	18.365	1.00	35.35	A	C
ATOM	1571	C	LEU A 201	32.906	61.366	15.462	1.00	34.07	A	C
ATOM	1572	O	LEU A 201	31.887	60.773	15.104	1.00	35.38	A	O
ATOM	1573	N	PRO A 202	34.128	60.817	15.344	1.00	33.66	A	N
ATOM	1574	CD	PRO A 202	35.409	61.457	15.698	1.00	32.39	A	C
ATOM	1575	CA	PRO A 202	34.353	59.475	14.779	1.00	32.85	A	C
ATOM	1576	CB	PRO A 202	35.872	59.404	14.655	1.00	33.65	A	C

Figure 7CC

ATOM	1577	CG	PRO A 202	36.343	60.272	15.793	1.00	34.48	A	C
ATOM	1578	C	PRO A 202	33.790	58.355	15.649	1.00	33.17	A	C
ATOM	1579	O	PRO A 202	33.402	57.297	15.151	1.00	30.49	A	O
ATOM	1580	N	THR A 203	33.773	58.599	16.956	1.00	31.52	A	N
ATOM	1581	CA	THR A 203	33.248	57.634	17.919	1.00	31.65	A	C
ATOM	1582	CB	THR A 203	34.338	56.676	18.426	1.00	32.68	A	C
ATOM	1583	OG1	THR A 203	35.425	57.424	18.979	1.00	35.29	A	O
ATOM	1584	CG2	THR A 203	34.828	55.781	17.302	1.00	37.32	A	C
ATOM	1585	C	THR A 203	32.688	58.386	19.117	1.00	30.86	A	C
ATOM	1586	O	THR A 203	33.168	59.451	19.461	1.00	27.18	A	O
ATOM	1587	N	PRO A 204	31.671	57.817	19.775	1.00	29.89	A	N
ATOM	1588	CD	PRO A 204	31.126	56.473	19.492	1.00	29.77	A	C
ATOM	1589	CA	PRO A 204	31.061	58.463	20.945	1.00	28.24	A	C
ATOM	1590	CB	PRO A 204	30.047	57.449	21.462	1.00	29.94	A	C
ATOM	1591	CG	PRO A 204	30.111	56.276	20.568	1.00	30.77	A	C
ATOM	1592	C	PRO A 204	32.096	58.803	22.007	1.00	25.79	A	C
ATOM	1593	O	PRO A 204	33.032	58.041	22.269	1.00	25.89	A	O
ATOM	1594	N	PRO A 205	31.961	59.981	22.626	1.00	23.44	A	N
ATOM	1595	CD	PRO A 205	30.990	61.063	22.358	1.00	24.13	A	C
ATOM	1596	CA	PRO A 205	32.915	60.378	23.670	1.00	22.08	A	C
ATOM	1597	CB	PRO A 205	32.600	61.852	23.873	1.00	24.52	A	C
ATOM	1598	CG	PRO A 205	31.125	61.932	23.587	1.00	24.69	A	C
ATOM	1599	C	PRO A 205	32.705	59.546	24.927	1.00	19.36	A	C
ATOM	1600	O	PRO A 205	31.637	58.961	25.125	1.00	18.49	A	O
ATOM	1601	N	LEU A 206	33.722	59.492	25.776	1.00	18.43	A	N
ATOM	1602	CA	LEU A 206	33.626	58.762	27.037	1.00	18.50	A	C
ATOM	1603	CB	LEU A 206	35.018	58.513	27.619	1.00	20.51	A	C
ATOM	1604	CG	LEU A 206	35.095	57.847	28.996	1.00	22.39	A	C
ATOM	1605	CD1	LEU A 206	34.491	56.439	28.946	1.00	22.36	A	C
ATOM	1606	CD2	LEU A 206	36.552	57.791	29.435	1.00	24.60	A	C
ATOM	1607	C	LEU A 206	32.822	59.615	28.017	1.00	18.04	A	C
ATOM	1608	O	LEU A 206	33.163	60.770	28.253	1.00	16.95	A	O
ATOM	1609	N	LEU A 207	31.746	59.049	28.554	1.00	16.00	A	N
ATOM	1610	CA	LEU A 207	30.909	59.748	29.521	1.00	17.26	A	C
ATOM	1611	CB	LEU A 207	29.433	59.412	29.304	1.00	18.06	A	C
ATOM	1612	CG	LEU A 207	28.664	60.071	28.158	1.00	24.42	A	C
ATOM	1613	CD1	LEU A 207	29.448	59.984	26.863	1.00	25.51	A	C
ATOM	1614	CD2	LEU A 207	27.310	59.373	28.012	1.00	24.48	A	C
ATOM	1615	C	LEU A 207	31.318	59.314	30.922	1.00	16.98	A	C
ATOM	1616	O	LEU A 207	31.388	58.120	31.215	1.00	18.46	A	O
ATOM	1617	N	ILE A 208	31.592	60.276	31.792	1.00	13.50	A	N
ATOM	1618	CA	ILE A 208	31.983	59.940	33.150	1.00	14.98	A	C
ATOM	1619	CB	ILE A 208	33.112	60.864	33.659	1.00	16.20	A	C
ATOM	1620	CG2	ILE A 208	33.468	60.509	35.101	1.00	16.97	A	C
ATOM	1621	CG1	ILE A 208	34.345	60.722	32.763	1.00	16.39	A	C
ATOM	1622	CD1	ILE A 208	34.984	59.333	32.784	1.00	17.91	A	C
ATOM	1623	C	ILE A 208	30.771	60.069	34.057	1.00	15.79	A	C
ATOM	1624	O	ILE A 208	30.193	61.150	34.194	1.00	15.47	A	O
ATOM	1625	N	HIS A 209	30.390	58.951	34.669	1.00	15.02	A	N
ATOM	1626	CA	HIS A 209	29.238	58.895	35.567	1.00	14.90	A	C
ATOM	1627	CB	HIS A 209	28.502	57.569	35.333	1.00	17.49	A	C
ATOM	1628	CG	HIS A 209	27.271	57.387	36.169	1.00	19.71	A	C
ATOM	1629	CD2	HIS A 209	27.116	57.192	37.500	1.00	20.19	A	C
ATOM	1630	ND1	HIS A 209	26.004	57.336	35.625	1.00	21.72	A	N
ATOM	1631	CE1	HIS A 209	25.123	57.114	36.584	1.00	17.63	A	C
ATOM	1632	NE2	HIS A 209	25.772	57.023	37.732	1.00	22.48	A	N
ATOM	1633	C	HIS A 209	29.744	59.006	37.011	1.00	13.24	A	C
ATOM	1634	O	HIS A 209	30.546	58.191	37.458	1.00	13.01	A	O

Figure 7DD

ATOM	1635	N	SER A 210	29.275	60.018	37.734	1.00	12.05	A	N
ATOM	1636	CA	SER A 210	29.709	60.238	39.109	1.00	11.23	A	C
ATOM	1637	CB	SER A 210	28.977	61.442	39.701	1.00	11.83	A	C
ATOM	1638	OG	SER A 210	29.140	62.587	38.881	1.00	12.14	A	O
ATOM	1639	C	SER A 210	29.529	59.031	40.032	1.00	12.17	A	C
ATOM	1640	O	SER A 210	30.370	58.774	40.890	1.00	11.45	A	O
ATOM	1641	N	GLY A 211	28.432	58.303	39.861	1.00	13.88	A	N
ATOM	1642	CA	GLY A 211	28.178	57.142	40.698	1.00	15.08	A	C
ATOM	1643	C	GLY A 211	29.147	56.004	40.446	1.00	16.38	A	C
ATOM	1644	O	GLY A 211	29.744	55.461	41.378	1.00	15.04	A	O
ATOM	1645	N	ASP A 212	29.311	55.630	39.183	1.00	15.98	A	N
ATOM	1646	CA	ASP A 212	30.231	54.552	38.860	1.00	16.82	A	C
ATOM	1647	CB	ASP A 212	30.208	54.264	37.365	1.00	19.63	A	C
ATOM	1648	CG	ASP A 212	28.847	53.798	36.895	1.00	23.61	A	C
ATOM	1649	OD1	ASP A 212	28.145	53.131	37.692	1.00	25.34	A	O
ATOM	1650	OD2	ASP A 212	28.486	54.086	35.738	1.00	21.50	A	O
ATOM	1651	C	ASP A 212	31.638	54.917	39.303	1.00	16.04	A	C
ATOM	1652	O	ASP A 212	32.375	54.073	39.807	1.00	15.40	A	O
ATOM	1653	N	ALA A 213	31.994	56.185	39.135	1.00	12.67	A	N
ATOM	1654	CA	ALA A 213	33.317	56.667	39.517	1.00	14.11	A	C
ATOM	1655	CB	ALA A 213	33.493	58.126	39.076	1.00	11.29	A	C
ATOM	1656	C	ALA A 213	33.560	56.540	41.022	1.00	12.53	A	C
ATOM	1657	O	ALA A 213	34.607	56.049	41.452	1.00	13.00	A	O
ATOM	1658	N	ILE A 214	32.603	56.973	41.834	1.00	13.61	A	N
ATOM	1659	CA	ILE A 214	32.808	56.875	43.271	1.00	11.94	A	C
ATOM	1660	CB	ILE A 214	31.748	57.701	44.065	1.00	12.63	A	C
ATOM	1661	CG2	ILE A 214	30.367	57.085	43.938	1.00	15.04	A	C
ATOM	1662	CG1	ILE A 214	32.174	57.795	45.530	1.00	12.30	A	C
ATOM	1663	CD1	ILE A 214	31.429	58.832	46.317	1.00	11.04	A	C
ATOM	1664	C	ILE A 214	32.855	55.405	43.719	1.00	13.71	A	C
ATOM	1665	O	ILE A 214	33.595	55.061	44.643	1.00	12.81	A	O
ATOM	1666	N	VAL A 215	32.096	54.538	43.053	1.00	13.33	A	N
ATOM	1667	CA	VAL A 215	32.118	53.109	43.387	1.00	13.18	A	C
ATOM	1668	CB	VAL A 215	31.165	52.293	42.474	1.00	13.68	A	C
ATOM	1669	CG1	VAL A 215	31.481	50.792	42.579	1.00	14.80	A	C
ATOM	1670	CG2	VAL A 215	29.707	52.537	42.876	1.00	10.93	A	C
ATOM	1671	C	VAL A 215	33.550	52.599	43.190	1.00	15.07	A	C
ATOM	1672	O	VAL A 215	34.115	51.933	44.065	1.00	12.73	A	O
ATOM	1673	N	GLU A 216	34.136	52.924	42.039	1.00	13.86	A	N
ATOM	1674	CA	GLU A 216	35.503	52.511	41.738	1.00	17.89	A	C
ATOM	1675	CB	GLU A 216	35.973	53.120	40.414	1.00	21.27	A	C
ATOM	1676	CG	GLU A 216	35.112	52.807	39.204	1.00	27.92	A	C
ATOM	1677	CD	GLU A 216	35.637	53.492	37.941	1.00	34.02	A	C
ATOM	1678	OE1	GLU A 216	36.824	53.286	37.609	1.00	31.93	A	O
ATOM	1679	OE2	GLU A 216	34.868	54.236	37.285	1.00	35.33	A	O
ATOM	1680	C	GLU A 216	36.447	52.971	42.846	1.00	17.32	A	C
ATOM	1681	O	GLU A 216	37.245	52.188	43.363	1.00	16.80	A	O
ATOM	1682	N	TYR A 217	36.352	54.248	43.204	1.00	16.20	A	N
ATOM	1683	CA	TYR A 217	37.200	54.818	44.244	1.00	16.23	A	C
ATOM	1684	CB	TYR A 217	36.900	56.308	44.432	1.00	14.73	A	C
ATOM	1685	CG	TYR A 217	37.693	56.942	45.557	1.00	17.55	A	C
ATOM	1686	CD1	TYR A 217	39.053	57.202	45.418	1.00	18.17	A	C
ATOM	1687	CE1	TYR A 217	39.797	57.738	46.475	1.00	18.51	A	C
ATOM	1688	CD2	TYR A 217	37.089	57.234	46.780	1.00	16.61	A	C
ATOM	1689	CE2	TYR A 217	37.815	57.765	47.836	1.00	17.74	A	C
ATOM	1690	CZ	TYR A 217	39.168	58.014	47.680	1.00	19.47	A	C
ATOM	1691	OH	TYR A 217	39.891	58.526	48.735	1.00	18.42	A	O
ATOM	1692	C	TYR A 217	37.041	54.116	45.584	1.00	16.31	A	C

Figure 7EE

ATOM	1693	O	TYR A 217	38.028	53.715	46.199	1.00	16.78	A	O
ATOM	1694	N	LEU A 218	35.798	53.995	46.045	1.00	15.56	A	N
ATOM	1695	CA	LEU A 218	35.509	53.353	47.324	1.00	18.16	A	C
ATOM	1696	CB	LEU A 218	33.993	53.344	47.575	1.00	15.21	A	C
ATOM	1697	CG	LEU A 218	33.321	54.705	47.799	1.00	15.27	A	C
ATOM	1698	CD1	LEU A 218	31.798	54.546	47.756	1.00	14.34	A	C
ATOM	1699	CD2	LEU A 218	33.775	55.294	49.129	1.00	13.25	A	C
ATOM	1700	C	LEU A 218	36.058	51.926	47.402	1.00	18.45	A	C
ATOM	1701	O	LEU A 218	36.648	51.531	48.409	1.00	18.06	A	O
ATOM	1702	N	GLN A 219	35.871	51.150	46.341	1.00	17.77	A	N
ATOM	1703	CA	GLN A 219	36.367	49.778	46.335	1.00	19.66	A	C
ATOM	1704	CB	GLN A 219	36.042	49.097	45.005	1.00	18.42	A	C
ATOM	1705	CG	GLN A 219	34.577	49.147	44.645	1.00	17.80	A	C
ATOM	1706	CD	GLN A 219	34.282	48.496	43.318	1.00	17.89	A	C
ATOM	1707	OE1	GLN A 219	35.071	48.596	42.372	1.00	18.96	A	O
ATOM	1708	NE2	GLN A 219	33.134	47.837	43.228	1.00	13.87	A	N
ATOM	1709	C	GLN A 219	37.876	49.740	46.567	1.00	19.63	A	C
ATOM	1710	O	GLN A 219	38.368	48.964	47.380	1.00	19.95	A	O
ATOM	1711	N	GLN A 220	38.605	50.593	45.859	1.00	21.16	A	N
ATOM	1712	CA	GLN A 220	40.057	50.621	45.992	1.00	24.11	A	C
ATOM	1713	CB	GLN A 220	40.681	51.372	44.811	1.00	25.85	A	C
ATOM	1714	CG	GLN A 220	42.197	51.445	44.885	1.00	34.94	A	C
ATOM	1715	CD	GLN A 220	42.830	51.975	43.615	1.00	40.03	A	C
ATOM	1716	OE1	GLN A 220	44.050	52.152	43.548	1.00	44.37	A	O
ATOM	1717	NE2	GLN A 220	42.010	52.227	42.598	1.00	41.95	A	N
ATOM	1718	C	GLN A 220	40.534	51.242	47.304	1.00	22.63	A	C
ATOM	1719	O	GLN A 220	41.275	50.617	48.062	1.00	21.00	A	O
ATOM	1720	N	LYS A 221	40.104	52.472	47.564	1.00	21.71	A	N
ATOM	1721	CA	LYS A 221	40.503	53.194	48.770	1.00	22.37	A	C
ATOM	1722	CB	LYS A 221	39.830	54.570	48.795	1.00	21.53	A	C
ATOM	1723	CG	LYS A 221	39.984	55.325	50.111	1.00	25.31	A	C
ATOM	1724	CD	LYS A 221	41.443	55.615	50.439	1.00	26.19	A	C
ATOM	1725	CE	LYS A 221	41.579	56.244	51.818	1.00	29.00	A	C
ATOM	1726	NZ	LYS A 221	42.999	56.511	52.159	1.00	29.71	A	N
ATOM	1727	C	LYS A 221	40.221	52.464	50.084	1.00	22.42	A	C
ATOM	1728	O	LYS A 221	41.090	52.376	50.953	1.00	21.37	A	O
ATOM	1729	N	TYR A 222	39.005	51.950	50.229	1.00	20.94	A	N
ATOM	1730	CA	TYR A 222	38.616	51.250	51.442	1.00	21.75	A	C
ATOM	1731	CB	TYR A 222	37.251	51.762	51.903	1.00	22.02	A	C
ATOM	1732	CG	TYR A 222	37.277	53.247	52.204	1.00	20.42	A	C
ATOM	1733	CD1	TYR A 222	36.737	54.178	51.314	1.00	18.91	A	C
ATOM	1734	CE1	TYR A 222	36.866	55.549	51.545	1.00	20.88	A	C
ATOM	1735	CD2	TYR A 222	37.938	53.725	53.336	1.00	21.77	A	C
ATOM	1736	CE2	TYR A 222	38.074	55.080	53.577	1.00	19.97	A	C
ATOM	1737	CZ	TYR A 222	37.540	55.988	52.679	1.00	20.71	A	C
ATOM	1738	OH	TYR A 222	37.705	57.330	52.909	1.00	16.95	A	O
ATOM	1739	C	TYR A 222	38.637	49.731	51.350	1.00	21.67	A	C
ATOM	1740	O	TYR A 222	38.112	49.040	52.226	1.00	20.83	A	O
ATOM	1741	N	ALA A 223	39.264	49.219	50.292	1.00	21.20	A	N
ATOM	1742	CA	ALA A 223	39.408	47.774	50.077	1.00	22.92	A	C
ATOM	1743	CB	ALA A 223	40.466	47.204	50.984	1.00	23.23	A	C
ATOM	1744	C	ALA A 223	38.105	47.055	50.330	1.00	23.19	A	C
ATOM	1745	O	ALA A 223	38.024	46.162	51.180	1.00	20.95	A	O
ATOM	1746	N	LEU A 224	37.088	47.426	49.565	1.00	25.19	A	N
ATOM	1747	CA	LEU A 224	35.759	46.839	49.692	1.00	24.53	A	C
ATOM	1748	CB	LEU A 224	34.703	47.937	49.609	1.00	22.99	A	C
ATOM	1749	CG	LEU A 224	34.869	49.090	50.607	1.00	21.68	A	C
ATOM	1750	CD1	LEU A 224	33.731	50.099	50.443	1.00	22.66	A	C

Figure 7FF

ATOM	1751	CD2 LEU A 224	34.875	48.531	52.022	1.00	23.83	A	C
ATOM	1752	C LEU A 224	35.576	45.852	48.551	1.00	24.10	A	C
ATOM	1753	O LEU A 224	35.569	46.259	47.400	1.00	22.11	A	O
ATOM	1754	N LYS A 225	35.368	44.572	48.866	1.00	26.47	A	N
ATOM	1755	CA LYS A 225	35.212	43.532	47.846	1.00	25.75	A	C
ATOM	1756	CB LYS A 225	35.880	42.233	48.331	1.00	26.74	A	C
ATOM	1757	CG LYS A 225	37.358	42.380	48.669	1.00	28.32	A	C
ATOM	1758	CD LYS A 225	38.185	42.652	47.421	1.00	31.42	A	C
ATOM	1759	CE LYS A 225	38.157	41.461	46.478	1.00	32.69	A	C
ATOM	1760	NZ LYS A 225	39.003	41.698	45.284	1.00	34.46	A	N
ATOM	1761	C LYS A 225	33.803	43.213	47.340	1.00	24.95	A	C
ATOM	1762	O LYS A 225	33.568	42.125	46.819	1.00	29.54	A	O
ATOM	1763	N ASN A 226	32.870	44.143	47.489	1.00	23.13	A	N
ATOM	1764	CA ASN A 226	31.498	43.938	47.019	1.00	20.01	A	C
ATOM	1765	CB ASN A 226	31.469	43.729	45.500	1.00	19.42	A	C
ATOM	1766	CG ASN A 226	32.287	44.755	44.751	1.00	23.12	A	C
ATOM	1767	OD1 ASN A 226	33.342	44.439	44.190	1.00	20.38	A	O
ATOM	1768	ND2 ASN A 226	31.814	45.995	44.743	1.00	16.65	A	N
ATOM	1769	C ASN A 226	30.800	42.740	47.662	1.00	21.21	A	C
ATOM	1770	O ASN A 226	30.086	41.999	46.981	1.00	18.29	A	O
ATOM	1771	N ASN A 227	30.984	42.551	48.963	1.00	22.29	A	N
ATOM	1772	CA ASN A 227	30.362	41.421	49.641	1.00	22.96	A	C
ATOM	1773	CB ASN A 227	31.438	40.462	50.163	1.00	22.46	A	C
ATOM	1774	CG ASN A 227	32.503	41.165	50.982	1.00	21.07	A	C
ATOM	1775	OD1 ASN A 227	32.223	42.137	51.679	1.00	19.99	A	O
ATOM	1776	ND2 ASN A 227	33.733	40.659	50.916	1.00	19.44	A	N
ATOM	1777	C ASN A 227	29.428	41.805	50.783	1.00	24.57	A	C
ATOM	1778	O ASN A 227	29.198	41.005	51.690	1.00	21.91	A	O
ATOM	1779	N ALA A 228	28.891	43.021	50.741	1.00	23.23	A	N
ATOM	1780	CA ALA A 228	27.969	43.481	51.776	1.00	26.14	A	C
ATOM	1781	CB ALA A 228	27.806	45.001	51.699	1.00	22.82	A	C
ATOM	1782	C ALA A 228	26.611	42.793	51.596	1.00	26.93	A	C
ATOM	1783	O ALA A 228	26.405	42.077	50.619	1.00	26.75	A	O
ATOM	1784	N CYS A 229	25.698	43.016	52.541	1.00	29.94	A	N
ATOM	1785	CA CYS A 229	24.359	42.425	52.508	1.00	34.05	A	C
ATOM	1786	CB CYS A 229	23.438	43.143	53.508	1.00	36.45	A	C
ATOM	1787	SG CYS A 229	23.886	42.897	55.243	1.00	48.21	A	S
ATOM	1788	C CYS A 229	23.730	42.476	51.124	1.00	35.31	A	C
ATOM	1789	O CYS A 229	23.882	43.451	50.399	1.00	35.27	A	O
ATOM	1790	N THR A 230	23.030	41.412	50.757	1.00	38.04	A	N
ATOM	1791	CA THR A 230	22.378	41.380	49.466	1.00	40.97	A	C
ATOM	1792	CB THR A 230	21.965	39.958	49.076	1.00	42.40	A	C
ATOM	1793	OG1 THR A 230	21.273	39.335	50.163	1.00	45.09	A	O
ATOM	1794	CG2 THR A 230	23.190	39.148	48.730	1.00	43.15	A	C
ATOM	1795	C THR A 230	21.150	42.269	49.476	1.00	41.97	A	C
ATOM	1796	O THR A 230	20.887	42.971	48.493	1.00	42.37	A	O
ATOM	1797	N PHE A 231	20.376	42.232	50.552	1.00	42.74	A	N
ATOM	1798	CA PHE A 231	19.230	43.108	50.576	1.00	43.96	A	C
ATOM	1799	CB PHE A 231	17.938	42.321	50.366	1.00	49.35	A	C
ATOM	1800	CG PHE A 231	17.721	41.990	48.907	1.00	55.66	A	C
ATOM	1801	CD1 PHE A 231	18.494	41.004	48.306	1.00	58.70	A	C
ATOM	1802	CD2 PHE A 231	16.903	42.785	48.088	1.00	58.59	A	C
ATOM	1803	CE1 PHE A 231	18.483	40.801	46.922	1.00	60.69	A	C
ATOM	1804	CE2 PHE A 231	16.879	42.597	46.701	1.00	60.58	A	C
ATOM	1805	CZ PHE A 231	17.668	41.604	46.113	1.00	60.92	A	C
ATOM	1806	C PHE A 231	19.335	43.912	51.838	1.00	40.83	A	C
ATOM	1807	O PHE A 231	18.811	43.567	52.886	1.00	42.69	A	O
ATOM	1808	N PRO A 232	20.153	44.975	51.722	1.00	35.76	A	N

Figure 7GG

ATOM	1809	CD	PRO A 232	20.672	45.196	50.347	1.00	35.27	A	C
ATOM	1810	CA	PRO A 232	20.579	46.028	52.651	1.00	32.93	A	C
ATOM	1811	CB	PRO A 232	21.689	46.764	51.874	1.00	32.41	A	C
ATOM	1812	CG	PRO A 232	21.363	46.497	50.424	1.00	32.47	A	C
ATOM	1813	C	PRO A 232	19.457	46.929	53.137	1.00	29.06	A	C
ATOM	1814	O	PRO A 232	18.456	47.146	52.452	1.00	27.86	A	O
ATOM	1815	N	LYS A 233	19.630	47.440	54.346	1.00	27.89	A	N
ATOM	1816	CA	LYS A 233	18.645	48.314	54.943	1.00	25.66	A	C
ATOM	1817	CB	LYS A 233	18.682	48.188	56.464	1.00	29.61	A	C
ATOM	1818	CG	LYS A 233	18.178	46.843	56.973	1.00	34.08	A	C
ATOM	1819	CD	LYS A 233	18.086	46.829	58.491	1.00	40.01	A	C
ATOM	1820	CE	LYS A 233	19.454	46.996	59.139	1.00	41.92	A	C
ATOM	1821	NZ	LYS A 233	19.351	47.038	60.626	1.00	44.78	A	N
ATOM	1822	C	LYS A 233	18.945	49.739	54.524	1.00	23.25	A	C
ATOM	1823	O	LYS A 233	20.042	50.248	54.738	1.00	20.72	A	O
ATOM	1824	N	VAL A 234	17.959	50.374	53.909	1.00	21.94	A	N
ATOM	1825	CA	VAL A 234	18.122	51.742	53.457	1.00	18.96	A	C
ATOM	1826	CB	VAL A 234	18.171	51.809	51.927	1.00	18.07	A	C
ATOM	1827	CG1	VAL A 234	18.407	53.242	51.484	1.00	15.91	A	C
ATOM	1828	CG2	VAL A 234	19.265	50.884	51.403	1.00	19.03	A	C
ATOM	1829	C	VAL A 234	16.982	52.622	53.945	1.00	19.45	A	C
ATOM	1830	O	VAL A 234	15.810	52.291	53.775	1.00	18.84	A	O
ATOM	1831	N	GLU A 235	17.332	53.749	54.550	1.00	18.70	A	N
ATOM	1832	CA	GLU A 235	16.333	54.682	55.044	1.00	19.65	A	C
ATOM	1833	CB	GLU A 235	16.584	55.029	56.513	1.00	20.87	A	C
ATOM	1834	CG	GLU A 235	16.619	53.849	57.461	1.00	24.25	A	C
ATOM	1835	CD	GLU A 235	16.762	54.287	58.908	1.00	26.71	A	C
ATOM	1836	OE1	GLU A 235	16.924	53.412	59.782	1.00	30.95	A	O
ATOM	1837	OE2	GLU A 235	16.710	55.509	59.174	1.00	28.58	A	O
ATOM	1838	C	GLU A 235	16.433	55.957	54.226	1.00	19.63	A	C
ATOM	1839	O	GLU A 235	17.522	56.339	53.793	1.00	19.08	A	O
ATOM	1840	N	PHE A 236	15.295	56.608	54.008	1.00	16.22	A	N
ATOM	1841	CA	PHE A 236	15.281	57.850	53.260	1.00	15.50	A	C
ATOM	1842	CB	PHE A 236	14.454	57.703	51.985	1.00	16.22	A	C
ATOM	1843	CG	PHE A 236	15.028	56.712	51.008	1.00	16.49	A	C
ATOM	1844	CD1	PHE A 236	14.734	55.352	51.117	1.00	14.80	A	C
ATOM	1845	CD2	PHE A 236	15.906	57.131	50.011	1.00	16.20	A	C
ATOM	1846	CE1	PHE A 236	15.311	54.423	50.249	1.00	16.35	A	C
ATOM	1847	CE2	PHE A 236	16.488	56.213	49.140	1.00	16.85	A	C
ATOM	1848	CZ	PHE A 236	16.191	54.857	49.258	1.00	18.08	A	C
ATOM	1849	C	PHE A 236	14.725	58.953	54.150	1.00	17.81	A	C
ATOM	1850	O	PHE A 236	13.669	58.808	54.771	1.00	17.48	A	O
ATOM	1851	N	HIS A 237	15.473	60.043	54.238	1.00	14.01	A	N
ATOM	1852	CA	HIS A 237	15.077	61.178	55.050	1.00	13.85	A	C
ATOM	1853	CB	HIS A 237	15.976	61.261	56.282	1.00	16.76	A	C
ATOM	1854	CG	HIS A 237	15.871	60.068	57.183	1.00	20.30	A	C
ATOM	1855	CD2	HIS A 237	16.529	58.884	57.176	1.00	22.69	A	C
ATOM	1856	ND1	HIS A 237	14.963	59.994	58.216	1.00	21.64	A	N
ATOM	1857	CE1	HIS A 237	15.065	58.816	58.808	1.00	24.58	A	C
ATOM	1858	NE2	HIS A 237	16.008	58.123	58.196	1.00	24.02	A	N
ATOM	1859	C	HIS A 237	15.240	62.421	54.190	1.00	12.98	A	C
ATOM	1860	O	HIS A 237	15.960	62.402	53.199	1.00	14.24	A	O
ATOM	1861	N	ALA A 238	14.573	63.500	54.571	1.00	14.25	A	N
ATOM	1862	CA	ALA A 238	14.656	64.745	53.822	1.00	14.74	A	C
ATOM	1863	CB	ALA A 238	13.867	64.622	52.523	1.00	13.87	A	C
ATOM	1864	C	ALA A 238	14.105	65.889	54.662	1.00	16.80	A	C
ATOM	1865	O	ALA A 238	13.416	65.662	55.659	1.00	13.41	A	O
ATOM	1866	N	SER A 239	14.419	67.118	54.265	1.00	16.83	A	N

Figure 7HH

ATOM	1867	CA	SER A 239	13.934	68.289	54.982	1.00	15.86	A	C
ATOM	1868	CB	SER A 239	14.874	69.472	54.749	1.00	17.78	A	C
ATOM	1869	OG	SER A 239	15.235	69.570	53.382	1.00	15.31	A	O
ATOM	1870	C	SER A 239	12.526	68.628	54.501	1.00	18.27	A	C
ATOM	1871	O	SER A 239	11.851	69.475	55.081	1.00	19.09	A	O
ATOM	1872	N	GLY A 240	12.093	67.950	53.440	1.00	19.12	A	N
ATOM	1873	CA	GLY A 240	10.764	68.172	52.891	1.00	18.85	A	C
ATOM	1874	C	GLY A 240	10.400	67.108	51.872	1.00	20.08	A	C
ATOM	1875	O	GLY A 240	11.262	66.321	51.462	1.00	19.84	A	O
ATOM	1876	N	ASP A 241	9.134	67.065	51.464	1.00	17.58	A	N
ATOM	1877	CA	ASP A 241	8.692	66.077	50.481	1.00	19.46	A	C
ATOM	1878	CB	ASP A 241	9.150	66.501	49.083	1.00	21.27	A	C
ATOM	1879	CG	ASP A 241	8.429	67.738	48.587	1.00	23.85	A	C
ATOM	1880	OD1	ASP A 241	7.247	67.610	48.206	1.00	26.32	A	O
ATOM	1881	OD2	ASP A 241	9.038	68.833	48.591	1.00	21.42	A	O
ATOM	1882	C	ASP A 241	9.257	64.694	50.803	1.00	16.99	A	C
ATOM	1883	O	ASP A 241	9.731	63.987	49.913	1.00	17.49	A	O
ATOM	1884	N	VAL A 242	9.208	64.316	52.076	1.00	15.93	A	N
ATOM	1885	CA	VAL A 242	9.737	63.025	52.516	1.00	14.13	A	C
ATOM	1886	CB	VAL A 242	9.894	62.990	54.052	1.00	17.19	A	C
ATOM	1887	CG1	VAL A 242	10.671	61.740	54.469	1.00	16.23	A	C
ATOM	1888	CG2	VAL A 242	10.612	64.248	54.523	1.00	18.97	A	C
ATOM	1889	C	VAL A 242	8.849	61.864	52.082	1.00	15.60	A	C
ATOM	1890	O	VAL A 242	9.341	60.808	51.660	1.00	12.78	A	O
ATOM	1891	N	ILE A 243	7.540	62.057	52.209	1.00	14.41	A	N
ATOM	1892	CA	ILE A 243	6.577	61.045	51.803	1.00	16.25	A	C
ATOM	1893	CB	ILE A 243	5.125	61.549	52.007	1.00	18.10	A	C
ATOM	1894	CG2	ILE A 243	4.123	60.554	51.414	1.00	20.99	A	C
ATOM	1895	CG1	ILE A 243	4.858	61.747	53.502	1.00	21.18	A	C
ATOM	1896	CD1	ILE A 243	3.485	62.293	53.817	1.00	20.78	A	C
ATOM	1897	C	ILE A 243	6.833	60.787	50.324	1.00	15.05	A	C
ATOM	1898	O	ILE A 243	6.885	59.639	49.878	1.00	16.76	A	O
ATOM	1899	N	TRP A 244	7.005	61.868	49.569	1.00	13.24	A	N
ATOM	1900	CA	TRP A 244	7.270	61.768	48.142	1.00	15.52	A	C
ATOM	1901	CB	TRP A 244	7.343	63.164	47.523	1.00	13.47	A	C
ATOM	1902	CG	TRP A 244	7.510	63.151	46.036	1.00	18.87	A	C
ATOM	1903	CD2	TRP A 244	8.732	63.342	45.312	1.00	17.48	A	C
ATOM	1904	CE2	TRP A 244	8.426	63.232	43.940	1.00	18.22	A	C
ATOM	1905	CE3	TRP A 244	10.057	63.594	45.693	1.00	17.59	A	C
ATOM	1906	CD1	TRP A 244	6.538	62.938	45.099	1.00	18.15	A	C
ATOM	1907	NE1	TRP A 244	7.083	62.988	43.835	1.00	18.29	A	N
ATOM	1908	CZ2	TRP A 244	9.399	63.366	42.943	1.00	20.22	A	C
ATOM	1909	CZ3	TRP A 244	11.024	63.727	44.702	1.00	18.36	A	C
ATOM	1910	CH2	TRP A 244	10.688	63.611	43.342	1.00	18.43	A	C
ATOM	1911	C	TRP A 244	8.590	61.042	47.891	1.00	14.64	A	C
ATOM	1912	O	TRP A 244	8.670	60.149	47.044	1.00	16.51	A	O
ATOM	1913	N	LEU A 245	9.628	61.436	48.623	1.00	13.56	A	N
ATOM	1914	CA	LEU A 245	10.941	60.814	48.459	1.00	12.19	A	C
ATOM	1915	CB	LEU A 245	11.946	61.416	49.444	1.00	11.28	A	C
ATOM	1916	CG	LEU A 245	13.379	60.875	49.342	1.00	11.24	A	C
ATOM	1917	CD1	LEU A 245	13.988	61.289	48.009	1.00	11.74	A	C
ATOM	1918	CD2	LEU A 245	14.223	61.407	50.490	1.00	10.22	A	C
ATOM	1919	C	LEU A 245	10.862	59.301	48.661	1.00	14.05	A	C
ATOM	1920	O	LEU A 245	11.439	58.537	47.884	1.00	12.33	A	O
ATOM	1921	N	GLU A 246	10.144	58.870	49.698	1.00	14.68	A	N
ATOM	1922	CA	GLU A 246	10.000	57.441	49.980	1.00	16.30	A	C
ATOM	1923	CB	GLU A 246	9.198	57.213	51.267	1.00	16.70	A	C
ATOM	1924	CG	GLU A 246	9.938	57.637	52.521	1.00	23.08	A	C

Figure 7II

ATOM	1925	CD	GLU	A 246	9.544	56.818	53.737	1.00	25.63	A	C
ATOM	1926	OE1	GLU	A 246	8.335	56.577	53.927	1.00	24.93	A	O
ATOM	1927	OE2	GLU	A 246	10.444	56.423	54.508	1.00	27.10	A	O
ATOM	1928	C	GLU	A 246	9.324	56.714	48.828	1.00	15.72	A	C
ATOM	1929	O	GLU	A 246	9.691	55.589	48.494	1.00	15.40	A	O
ATOM	1930	N	ARG	A 247	8.326	57.359	48.235	1.00	16.57	A	N
ATOM	1931	CA	ARG	A 247	7.611	56.790	47.105	1.00	18.74	A	C
ATOM	1932	CB	ARG	A 247	6.445	57.710	46.711	1.00	23.10	A	C
ATOM	1933	CG	ARG	A 247	5.875	57.451	45.325	1.00	32.32	A	C
ATOM	1934	CD	ARG	A 247	4.561	58.204	45.114	1.00	40.32	A	C
ATOM	1935	NE	ARG	A 247	4.084	58.117	43.733	1.00	47.44	A	N
ATOM	1936	CZ	ARG	A 247	4.569	58.835	42.722	1.00	49.78	A	C
ATOM	1937	NH1	ARG	A 247	5.548	59.705	42.931	1.00	51.70	A	N
ATOM	1938	NH2	ARG	A 247	4.079	58.682	41.497	1.00	52.43	A	N
ATOM	1939	C	ARG	A 247	8.594	56.630	45.941	1.00	17.54	A	C
ATOM	1940	O	ARG	A 247	8.654	55.578	45.299	1.00	14.31	A	O
ATOM	1941	N	GLN	A 248	9.375	57.672	45.677	1.00	15.93	A	N
ATOM	1942	CA	GLN	A 248	10.350	57.608	44.598	1.00	16.24	A	C
ATOM	1943	CB	GLN	A 248	11.120	58.929	44.485	1.00	17.33	A	C
ATOM	1944	CG	GLN	A 248	10.267	60.119	44.047	1.00	16.22	A	C
ATOM	1945	CD	GLN	A 248	9.552	59.879	42.725	1.00	22.44	A	C
ATOM	1946	OE1	GLN	A 248	10.184	59.627	41.694	1.00	22.85	A	O
ATOM	1947	NE2	GLN	A 248	8.225	59.958	42.749	1.00	24.90	A	N
ATOM	1948	C	GLN	A 248	11.324	56.453	44.815	1.00	15.90	A	C
ATOM	1949	O	GLN	A 248	11.705	55.768	43.866	1.00	16.87	A	O
ATOM	1950	N	ALA	A 249	11.720	56.231	46.065	1.00	15.92	A	N
ATOM	1951	CA	ALA	A 249	12.644	55.146	46.384	1.00	15.55	A	C
ATOM	1952	CB	ALA	A 249	13.015	55.191	47.857	1.00	16.80	A	C
ATOM	1953	C	ALA	A 249	12.032	53.789	46.041	1.00	16.47	A	C
ATOM	1954	O	ALA	A 249	12.685	52.943	45.426	1.00	16.21	A	O
ATOM	1955	N	LYS	A 250	10.779	53.582	46.438	1.00	16.38	A	N
ATOM	1956	CA	LYS	A 250	10.102	52.316	46.159	1.00	18.81	A	C
ATOM	1957	CB	LYS	A 250	8.750	52.258	46.880	1.00	20.86	A	C
ATOM	1958	CG	LYS	A 250	8.843	52.132	48.394	1.00	26.84	A	C
ATOM	1959	CD	LYS	A 250	7.488	51.745	48.988	1.00	31.08	A	C
ATOM	1960	CE	LYS	A 250	7.554	51.607	50.507	1.00	31.43	A	C
ATOM	1961	NZ	LYS	A 250	7.896	52.899	51.156	1.00	29.87	A	N
ATOM	1962	C	LYS	A 250	9.884	52.121	44.661	1.00	18.41	A	C
ATOM	1963	O	LYS	A 250	10.073	51.024	44.125	1.00	15.17	A	O
ATOM	1964	N	GLU	A 251	9.493	53.200	43.992	1.00	15.62	A	N
ATOM	1965	CA	GLU	A 251	9.224	53.167	42.562	1.00	18.32	A	C
ATOM	1966	CB	GLU	A 251	8.586	54.486	42.119	1.00	20.33	A	C
ATOM	1967	CG	GLU	A 251	7.205	54.758	42.692	1.00	23.48	A	C
ATOM	1968	CD	GLU	A 251	6.106	54.036	41.936	1.00	25.23	A	C
ATOM	1969	OE1	GLU	A 251	6.415	53.361	40.932	1.00	28.49	A	O
ATOM	1970	OE2	GLU	A 251	4.932	54.152	42.341	1.00	25.47	A	O
ATOM	1971	C	GLU	A 251	10.448	52.921	41.694	1.00	20.06	A	C
ATOM	1972	O	GLU	A 251	10.398	52.121	40.763	1.00	17.23	A	O
ATOM	1973	N	TRP	A 252	11.547	53.606	41.997	1.00	19.52	A	N
ATOM	1974	CA	TRP	A 252	12.748	53.489	41.175	1.00	20.14	A	C
ATOM	1975	CB	TRP	A 252	13.276	54.885	40.832	1.00	18.05	A	C
ATOM	1976	CG	TRP	A 252	12.305	55.710	40.043	1.00	18.22	A	C
ATOM	1977	CD2	TRP	A 252	12.039	55.607	38.640	1.00	20.57	A	C
ATOM	1978	CE2	TRP	A 252	11.017	56.533	38.339	1.00	20.85	A	C
ATOM	1979	CE3	TRP	A 252	12.564	54.818	37.607	1.00	21.87	A	C
ATOM	1980	CD1	TRP	A 252	11.460	56.669	40.523	1.00	17.88	A	C
ATOM	1981	NE1	TRP	A 252	10.683	57.168	39.508	1.00	17.77	A	N
ATOM	1982	CZ2	TRP	A 252	10.506	56.697	37.041	1.00	22.03	A	C

Figure 7JJ

ATOM	1983	CZ3 TRP A 252	12.055	54.978	36.314	1.00	21.57	A	C
ATOM	1984	CH2 TRP A 252	11.036	55.913	36.045	1.00	22.86	A	C
ATOM	1985	C TRP A 252	13.902	52.641	41.688	1.00	22.39	A	C
ATOM	1986	O TRP A 252	14.680	52.122	40.886	1.00	23.72	A	O
ATOM	1987	N LEU A 253	14.024	52.504	43.003	1.00	22.18	A	N
ATOM	1988	CA LEU A 253	15.106	51.717	43.588	1.00	25.35	A	C
ATOM	1989	CB LEU A 253	15.809	52.524	44.680	1.00	20.44	A	C
ATOM	1990	CG LEU A 253	16.355	53.904	44.285	1.00	21.92	A	C
ATOM	1991	CD1 LEU A 253	16.785	54.649	45.532	1.00	18.63	A	C
ATOM	1992	CD2 LEU A 253	17.530	53.758	43.316	1.00	20.79	A	C
ATOM	1993	C LEU A 253	14.583	50.401	44.168	1.00	29.73	A	C
ATOM	1994	O LEU A 253	15.357	49.570	44.647	1.00	31.04	A	O
ATOM	1995	N LYS A 254	13.267	50.219	44.121	1.00	33.91	A	N
ATOM	1996	CA LYS A 254	12.638	49.007	44.631	1.00	39.79	A	C
ATOM	1997	CB LYS A 254	13.102	47.795	43.812	1.00	43.18	A	C
ATOM	1998	CG LYS A 254	12.330	46.518	44.102	1.00	51.27	A	C
ATOM	1999	CD LYS A 254	12.747	45.377	43.181	1.00	56.67	A	C
ATOM	2000	CE LYS A 254	11.928	44.121	43.464	1.00	59.29	A	C
ATOM	2001	NZ LYS A 254	10.463	44.368	43.307	1.00	62.20	A	N
ATOM	2002	C LYS A 254	12.967	48.805	46.110	1.00	41.24	A	C
ATOM	2003	O LYS A 254	13.111	47.678	46.586	1.00	42.02	A	O
ATOM	2004	N LEU A 255	13.091	49.911	46.834	1.00	42.21	A	N
ATOM	2005	CA LEU A 255	13.396	49.856	48.255	1.00	43.88	A	C
ATOM	2006	CB LEU A 255	14.643	50.687	48.560	1.00	41.85	A	C
ATOM	2007	CG LEU A 255	15.934	50.186	47.910	1.00	40.40	A	C
ATOM	2008	CD1 LEU A 255	17.065	51.143	48.229	1.00	40.11	A	C
ATOM	2009	CD2 LEU A 255	16.258	48.788	48.412	1.00	39.40	A	C
ATOM	2010	C LEU A 255	12.211	50.365	49.070	1.00	46.21	A	C
ATOM	2011	O LEU A 255	12.350	51.427	49.715	1.00	47.30	A	O
ATOM	2012	OXT LEU A 255	11.152	49.696	49.044	1.00	48.09	A	O
ATOM	2013	CB MET B 1	3.272	103.508	55.905	1.00	23.27	B	C
ATOM	2014	CG MET B 1	3.026	102.116	56.484	1.00	25.31	B	C
ATOM	2015	SD MET B 1	1.613	101.253	55.747	1.00	29.32	B	S
ATOM	2016	CE MET B 1	0.239	102.076	56.594	1.00	27.48	B	C
ATOM	2017	C MET B 1	5.739	103.357	56.203	1.00	22.82	B	C
ATOM	2018	O MET B 1	6.391	103.503	55.166	1.00	21.44	B	O
ATOM	2019	N MET B 1	4.661	105.565	55.875	1.00	22.28	B	N
ATOM	2020	CA MET B 1	4.509	104.211	56.478	1.00	22.89	B	C
ATOM	2021	N LYS B 2	6.057	102.479	57.148	1.00	22.63	B	N
ATOM	2022	CA LYS B 2	7.185	101.568	57.010	1.00	21.27	B	C
ATOM	2023	CB LYS B 2	8.060	101.591	58.260	1.00	21.29	B	C
ATOM	2024	CG LYS B 2	9.273	100.675	58.156	1.00	18.62	B	C
ATOM	2025	CD LYS B 2	10.097	100.705	59.419	1.00	18.80	B	C
ATOM	2026	CE LYS B 2	11.414	99.983	59.213	1.00	19.94	B	C
ATOM	2027	NZ LYS B 2	12.203	99.908	60.474	1.00	21.20	B	N
ATOM	2028	C LYS B 2	6.610	100.169	56.822	1.00	19.67	B	C
ATOM	2029	O LYS B 2	5.903	99.661	57.692	1.00	20.03	B	O
ATOM	2030	N ILE B 3	6.915	99.545	55.689	1.00	18.60	B	N
ATOM	2031	CA ILE B 3	6.395	98.213	55.410	1.00	16.13	B	C
ATOM	2032	CB ILE B 3	5.409	98.250	54.232	1.00	18.20	B	C
ATOM	2033	CG2 ILE B 3	4.281	99.237	54.516	1.00	15.72	B	C
ATOM	2034	CG1 ILE B 3	6.156	98.669	52.964	1.00	17.99	B	C
ATOM	2035	CD1 ILE B 3	5.909	97.772	51.772	1.00	20.13	B	C
ATOM	2036	C ILE B 3	7.476	97.190	55.062	1.00	17.01	B	C
ATOM	2037	O ILE B 3	8.637	97.535	54.820	1.00	13.35	B	O
ATOM	2038	N GLY B 4	7.072	95.924	55.046	1.00	15.79	B	N
ATOM	2039	CA GLY B 4	7.982	94.859	54.678	1.00	13.12	B	C
ATOM	2040	C GLY B 4	7.474	94.217	53.401	1.00	12.84	B	C

Figure 7KK

ATOM	2041	O	GLY	B	4	6.271	94.248	53.123	1.00	12.27	B	O
ATOM	2042	N	VAL	B	5	8.387	93.670	52.602	1.00	11.41	B	N
ATOM	2043	CA	VAL	B	5	8.024	92.982	51.362	1.00	12.46	B	C
ATOM	2044	CB	VAL	B	5	8.471	93.755	50.092	1.00	11.43	B	C
ATOM	2045	CG1	VAL	B	5	8.281	92.886	48.860	1.00	10.57	B	C
ATOM	2046	CG2	VAL	B	5	7.646	95.026	49.938	1.00	13.41	B	C
ATOM	2047	C	VAL	B	5	8.745	91.641	51.404	1.00	11.84	B	C
ATOM	2048	O	VAL	B	5	9.964	91.591	51.565	1.00	13.84	B	O
ATOM	2049	N	PHE	B	6	7.989	90.559	51.277	1.00	11.52	B	N
ATOM	2050	CA	PHE	B	6	8.571	89.222	51.330	1.00	12.00	B	C
ATOM	2051	CB	PHE	B	6	7.930	88.429	52.471	1.00	14.01	B	C
ATOM	2052	CG	PHE	B	6	8.313	86.975	52.485	1.00	15.68	B	C
ATOM	2053	CD1	PHE	B	6	9.650	86.598	52.576	1.00	15.79	B	C
ATOM	2054	CD2	PHE	B	6	7.340	85.983	52.403	1.00	17.28	B	C
ATOM	2055	CE1	PHE	B	6	10.017	85.251	52.584	1.00	15.22	B	C
ATOM	2056	CE2	PHE	B	6	7.699	84.628	52.411	1.00	18.59	B	C
ATOM	2057	CZ	PHE	B	6	9.044	84.268	52.502	1.00	15.23	B	C
ATOM	2058	C	PHE	B	6	8.440	88.410	50.046	1.00	12.99	B	C
ATOM	2059	O	PHE	B	6	7.396	88.412	49.400	1.00	13.52	B	O
ATOM	2060	N	ASP	B	7	9.512	87.707	49.695	1.00	13.22	B	N
ATOM	2061	CA	ASP	B	7	9.533	86.839	48.523	1.00	12.28	B	C
ATOM	2062	CB	ASP	B	7	9.914	87.600	47.254	1.00	12.10	B	C
ATOM	2063	CG	ASP	B	7	9.838	86.727	46.018	1.00	11.16	B	C
ATOM	2064	OD1	ASP	B	7	8.773	86.111	45.800	1.00	11.05	B	O
ATOM	2065	OD2	ASP	B	7	10.835	86.652	45.265	1.00	15.46	B	O
ATOM	2066	C	ASP	B	7	10.544	85.730	48.749	1.00	12.97	B	C
ATOM	2067	O	ASP	B	7	11.402	85.831	49.626	1.00	14.91	B	O
ATOM	2068	N	SER	B	8	10.444	84.670	47.953	1.00	13.64	B	N
ATOM	2069	CA	SER	B	8	11.367	83.551	48.076	1.00	13.32	B	C
ATOM	2070	CB	SER	B	8	10.870	82.357	47.246	1.00	11.76	B	C
ATOM	2071	OG	SER	B	8	10.643	82.716	45.892	1.00	12.59	B	O
ATOM	2072	C	SER	B	8	12.760	83.979	47.618	1.00	12.86	B	C
ATOM	2073	O	SER	B	8	13.760	83.328	47.931	1.00	15.56	B	O
ATOM	2074	N	GLY	B	9	12.826	85.088	46.888	1.00	14.15	B	N
ATOM	2075	CA	GLY	B	9	14.113	85.565	46.418	1.00	11.94	B	C
ATOM	2076	C	GLY	B	9	14.060	86.923	45.751	1.00	13.28	B	C
ATOM	2077	O	GLY	B	9	13.420	87.855	46.255	1.00	11.42	B	O
ATOM	2078	N	VAL	B	10	14.731	87.031	44.608	1.00	11.70	B	N
ATOM	2079	CA	VAL	B	10	14.793	88.283	43.848	1.00	13.19	B	C
ATOM	2080	CB	VAL	B	10	16.035	88.301	42.931	1.00	11.94	B	C
ATOM	2081	CG1	VAL	B	10	15.956	87.149	41.948	1.00	17.01	B	C
ATOM	2082	CG2	VAL	B	10	16.148	89.633	42.200	1.00	12.63	B	C
ATOM	2083	C	VAL	B	10	13.546	88.495	42.995	1.00	12.34	B	C
ATOM	2084	O	VAL	B	10	13.267	89.604	42.550	1.00	14.01	B	O
ATOM	2085	N	GLY	B	11	12.794	87.426	42.768	1.00	12.08	B	N
ATOM	2086	CA	GLY	B	11	11.591	87.540	41.957	1.00	14.90	B	C
ATOM	2087	C	GLY	B	11	10.634	88.640	42.373	1.00	12.77	B	C
ATOM	2088	O	GLY	B	11	10.004	89.278	41.524	1.00	13.23	B	O
ATOM	2089	N	GLY	B	12	10.524	88.861	43.679	1.00	13.56	B	N
ATOM	2090	CA	GLY	B	12	9.639	89.887	44.198	1.00	15.76	B	C
ATOM	2091	C	GLY	B	12	9.917	91.279	43.659	1.00	15.26	B	C
ATOM	2092	O	GLY	B	12	9.141	92.213	43.899	1.00	15.12	B	O
ATOM	2093	N	PHE	B	13	11.024	91.426	42.937	1.00	12.59	B	N
ATOM	2094	CA	PHE	B	13	11.376	92.713	42.360	1.00	14.03	B	C
ATOM	2095	CB	PHE	B	13	12.702	92.620	41.589	1.00	14.04	B	C
ATOM	2096	CG	PHE	B	13	13.929	92.823	42.446	1.00	14.87	B	C
ATOM	2097	CD1	PHE	B	13	15.133	93.231	41.868	1.00	16.32	B	C
ATOM	2098	CD2	PHE	B	13	13.883	92.629	43.823	1.00	14.64	B	C

Figure 7LL

ATOM	2099	CE1 PHE B	13	16.272	93.448	42.651	1.00	13.70	B	C
ATOM	2100	CE2 PHE B	13	15.013	92.842	44.614	1.00	13.54	B	C
ATOM	2101	CZ PHE B	13	16.210	93.254	44.025	1.00	15.35	B	C
ATOM	2102	C PHE B	13	10.260	93.184	41.425	1.00	14.72	B	C
ATOM	2103	O PHE B	13	10.013	94.380	41.301	1.00	12.42	B	O
ATOM	2104	N SER B	14	9.580	92.243	40.775	1.00	14.71	B	N
ATOM	2105	CA SER B	14	8.494	92.600	39.860	1.00	14.65	B	C
ATOM	2106	CB SER B	14	7.918	91.349	39.187	1.00	14.09	B	C
ATOM	2107	OG SER B	14	7.405	90.436	40.135	1.00	13.06	B	O
ATOM	2108	C SER B	14	7.380	93.355	40.587	1.00	14.07	B	C
ATOM	2109	O SER B	14	6.688	94.187	39.994	1.00	13.89	B	O
ATOM	2110	N VAL B	15	7.212	93.064	41.872	1.00	14.55	B	N
ATOM	2111	CA VAL B	15	6.196	93.737	42.675	1.00	14.09	B	C
ATOM	2112	CB VAL B	15	5.675	92.827	43.814	1.00	12.74	B	C
ATOM	2113	CG1 VAL B	15	4.705	93.600	44.698	1.00	13.09	B	C
ATOM	2114	CG2 VAL B	15	4.971	91.604	43.224	1.00	11.77	B	C
ATOM	2115	C VAL B	15	6.789	95.003	43.283	1.00	14.70	B	C
ATOM	2116	O VAL B	15	6.145	96.052	43.307	1.00	13.74	B	O
ATOM	2117	N LEU B	16	8.022	94.903	43.769	1.00	13.69	B	N
ATOM	2118	CA LEU B	16	8.679	96.048	44.384	1.00	14.26	B	C
ATOM	2119	CB LEU B	16	10.082	95.662	44.863	1.00	13.66	B	C
ATOM	2120	CG LEU B	16	10.940	96.793	45.448	1.00	14.21	B	C
ATOM	2121	CD1 LEU B	16	10.201	97.451	46.605	1.00	12.59	B	C
ATOM	2122	CD2 LEU B	16	12.280	96.242	45.905	1.00	12.19	B	C
ATOM	2123	C LEU B	16	8.757	97.212	43.401	1.00	16.29	B	C
ATOM	2124	O LEU B	16	8.614	98.373	43.787	1.00	16.57	B	O
ATOM	2125	N LYS B	17	8.984	96.896	42.129	1.00	17.51	B	N
ATOM	2126	CA LYS B	17	9.069	97.927	41.099	1.00	19.45	B	C
ATOM	2127	CB LYS B	17	9.349	97.298	39.733	1.00	19.95	B	C
ATOM	2128	CG LYS B	17	9.302	98.291	38.578	1.00	24.40	B	C
ATOM	2129	CD LYS B	17	9.568	97.608	37.245	1.00	29.79	B	C
ATOM	2130	CE LYS B	17	9.472	98.586	36.081	1.00	33.15	B	C
ATOM	2131	NZ LYS B	17	9.808	97.925	34.784	1.00	35.04	B	N
ATOM	2132	C LYS B	17	7.769	98.722	41.038	1.00	19.40	B	C
ATOM	2133	O LYS B	17	7.788	99.950	40.985	1.00	18.81	B	O
ATOM	2134	N SER B	18	6.642	98.018	41.042	1.00	18.29	B	N
ATOM	2135	CA SER B	18	5.344	98.675	40.997	1.00	18.21	B	C
ATOM	2136	CB SER B	18	4.221	97.636	40.941	1.00	17.21	B	C
ATOM	2137	OG SER B	18	4.357	96.808	39.798	1.00	17.80	B	O
ATOM	2138	C SER B	18	5.162	99.561	42.222	1.00	19.88	B	C
ATOM	2139	O SER B	18	4.720	100.703	42.112	1.00	17.77	B	O
ATOM	2140	N LEU B	19	5.510	99.030	43.391	1.00	19.41	B	N
ATOM	2141	CA LEU B	19	5.379	99.785	44.629	1.00	19.33	B	C
ATOM	2142	CB LEU B	19	5.839	98.936	45.817	1.00	18.90	B	C
ATOM	2143	CG LEU B	19	5.085	97.622	46.027	1.00	20.11	B	C
ATOM	2144	CD1 LEU B	19	5.701	96.850	47.188	1.00	18.40	B	C
ATOM	2145	CD2 LEU B	19	3.612	97.919	46.289	1.00	17.29	B	C
ATOM	2146	C LEU B	19	6.205	101.063	44.564	1.00	18.96	B	C
ATOM	2147	O LEU B	19	5.722	102.145	44.897	1.00	19.77	B	O
ATOM	2148	N LEU B	20	7.455	100.930	44.136	1.00	19.62	B	N
ATOM	2149	CA LEU B	20	8.355	102.071	44.024	1.00	20.54	B	C
ATOM	2150	CB LEU B	20	9.736	101.605	43.548	1.00	19.03	B	C
ATOM	2151	CG LEU B	20	10.562	100.763	44.529	1.00	21.61	B	C
ATOM	2152	CD1 LEU B	20	11.789	100.217	43.824	1.00	17.66	B	C
ATOM	2153	CD2 LEU B	20	10.968	101.613	45.731	1.00	17.70	B	C
ATOM	2154	C LEU B	20	7.821	103.148	43.077	1.00	21.80	B	C
ATOM	2155	O LEU B	20	7.864	104.334	43.397	1.00	24.32	B	O
ATOM	2156	N LYS B	21	7.321	102.736	41.916	1.00	22.92	B	N

Figure 7MM

ATOM	2157	CA	LYS	B	21	6.789	103.680	40.932	1.00	25.60	B	C
ATOM	2158	CB	LYS	B	21	6.334	102.934	39.671	1.00	29.64	B	C
ATOM	2159	CG	LYS	B	21	7.412	102.050	39.049	1.00	39.78	B	C
ATOM	2160	CD	LYS	B	21	6.819	100.964	38.139	1.00	45.78	B	C
ATOM	2161	CE	LYS	B	21	6.314	101.521	36.813	1.00	49.52	B	C
ATOM	2162	NZ	LYS	B	21	7.428	101.970	35.926	1.00	52.40	B	N
ATOM	2163	C	LYS	B	21	5.610	104.455	41.513	1.00	24.12	B	C
ATOM	2164	O	LYS	B	21	5.461	105.652	41.270	1.00	21.99	B	O
ATOM	2165	N	ALA	B	22	4.775	103.762	42.281	1.00	22.32	B	N
ATOM	2166	CA	ALA	B	22	3.602	104.378	42.889	1.00	23.02	B	C
ATOM	2167	CB	ALA	B	22	2.619	103.299	43.321	1.00	21.51	B	C
ATOM	2168	C	ALA	B	22	3.950	105.279	44.074	1.00	25.48	B	C
ATOM	2169	O	ALA	B	22	3.082	105.975	44.602	1.00	26.34	B	O
ATOM	2170	N	ARG	B	23	5.214	105.264	44.489	1.00	26.06	B	N
ATOM	2171	CA	ARG	B	23	5.674	106.090	45.606	1.00	28.97	B	C
ATOM	2172	CB	ARG	B	23	5.794	107.556	45.170	1.00	33.33	B	C
ATOM	2173	CG	ARG	B	23	6.504	107.770	43.850	1.00	41.37	B	C
ATOM	2174	CD	ARG	B	23	6.349	109.205	43.378	1.00	47.44	B	C
ATOM	2175	NE	ARG	B	23	6.782	109.366	41.992	1.00	56.48	B	N
ATOM	2176	CZ	ARG	B	23	6.602	110.472	41.275	1.00	59.85	B	C
ATOM	2177	NH1	ARG	B	23	5.998	111.520	41.819	1.00	63.01	B	N
ATOM	2178	NH2	ARG	B	23	7.019	110.529	40.015	1.00	61.13	B	N
ATOM	2179	C	ARG	B	23	4.697	106.012	46.774	1.00	27.89	B	C
ATOM	2180	O	ARG	B	23	4.246	107.042	47.276	1.00	27.91	B	O
ATOM	2181	N	LEU	B	24	4.373	104.797	47.205	1.00	25.94	B	N
ATOM	2182	CA	LEU	B	24	3.430	104.611	48.303	1.00	24.48	B	C
ATOM	2183	CB	LEU	B	24	2.653	103.301	48.118	1.00	22.57	B	C
ATOM	2184	CG	LEU	B	24	1.822	103.103	46.847	1.00	24.84	B	C
ATOM	2185	CD1	LEU	B	24	1.067	101.779	46.942	1.00	23.08	B	C
ATOM	2186	CD2	LEU	B	24	0.842	104.266	46.671	1.00	23.49	B	C
ATOM	2187	C	LEU	B	24	4.048	104.617	49.699	1.00	24.22	B	C
ATOM	2188	O	LEU	B	24	3.445	105.126	50.641	1.00	25.35	B	O
ATOM	2189	N	PHE	B	25	5.250	104.068	49.842	1.00	25.14	B	N
ATOM	2190	CA	PHE	B	25	5.865	103.997	51.161	1.00	25.20	B	C
ATOM	2191	CB	PHE	B	25	6.078	102.531	51.530	1.00	24.64	B	C
ATOM	2192	CG	PHE	B	25	4.886	101.665	51.251	1.00	23.70	B	C
ATOM	2193	CD1	PHE	B	25	4.849	100.851	50.123	1.00	23.04	B	C
ATOM	2194	CD2	PHE	B	25	3.788	101.685	52.098	1.00	22.47	B	C
ATOM	2195	CE1	PHE	B	25	3.729	100.070	49.845	1.00	20.01	B	C
ATOM	2196	CE2	PHE	B	25	2.666	100.910	51.828	1.00	22.66	B	C
ATOM	2197	CZ	PHE	B	25	2.637	100.100	50.697	1.00	21.24	B	C
ATOM	2198	C	PHE	B	25	7.164	104.758	51.361	1.00	25.96	B	C
ATOM	2199	O	PHE	B	25	8.020	104.796	50.482	1.00	28.54	B	O
ATOM	2200	N	ASP	B	26	7.308	105.355	52.540	1.00	26.35	B	N
ATOM	2201	CA	ASP	B	26	8.512	106.108	52.872	1.00	28.67	B	C
ATOM	2202	CB	ASP	B	26	8.300	106.958	54.130	1.00	31.57	B	C
ATOM	2203	CG	ASP	B	26	7.335	108.101	53.907	1.00	33.21	B	C
ATOM	2204	OD1	ASP	B	26	7.429	108.753	52.844	1.00	33.40	B	O
ATOM	2205	OD2	ASP	B	26	6.495	108.352	54.800	1.00	37.72	B	O
ATOM	2206	C	ASP	B	26	9.697	105.186	53.109	1.00	25.51	B	C
ATOM	2207	O	ASP	B	26	10.840	105.567	52.877	1.00	22.85	B	O
ATOM	2208	N	GLU	B	27	9.421	103.974	53.581	1.00	24.08	B	N
ATOM	2209	CA	GLU	B	27	10.483	103.013	53.859	1.00	21.60	B	C
ATOM	2210	CB	GLU	B	27	10.964	103.179	55.305	1.00	22.98	B	C
ATOM	2211	CG	GLU	B	27	11.869	102.071	55.800	1.00	25.73	B	C
ATOM	2212	CD	GLU	B	27	12.636	102.459	57.051	1.00	30.40	B	C
ATOM	2213	OE1	GLU	B	27	12.088	103.219	57.883	1.00	28.18	B	O
ATOM	2214	OE2	GLU	B	27	13.785	101.993	57.207	1.00	28.75	B	O

Figure 7NN

ATOM	2215	C	GLU	B	27	10.036	101.576	53.601	1.00	19.70	B	C
ATOM	2216	O	GLU	B	27	8.919	101.184	53.948	1.00	17.68	B	O
ATOM	2217	N	ILE	B	28	10.926	100.795	52.995	1.00	16.91	B	N
ATOM	2218	CA	ILE	B	28	10.630	99.407	52.651	1.00	14.07	B	C
ATOM	2219	CB	ILE	B	28	10.394	99.276	51.121	1.00	15.11	B	C
ATOM	2220	CG2	ILE	B	28	10.279	97.816	50.711	1.00	15.06	B	C
ATOM	2221	CG1	ILE	B	28	9.124	100.034	50.732	1.00	15.08	B	C
ATOM	2222	CD1	ILE	B	28	8.920	100.162	49.218	1.00	17.55	B	C
ATOM	2223	C	ILE	B	28	11.740	98.446	53.069	1.00	14.73	B	C
ATOM	2224	O	ILE	B	28	12.925	98.694	52.825	1.00	14.43	B	O
ATOM	2225	N	ILE	B	29	11.348	97.357	53.720	1.00	13.73	B	N
ATOM	2226	CA	ILE	B	29	12.299	96.338	54.143	1.00	15.11	B	C
ATOM	2227	CB	ILE	B	29	12.113	95.957	55.636	1.00	14.64	B	C
ATOM	2228	CG2	ILE	B	29	13.231	95.012	56.077	1.00	13.07	B	C
ATOM	2229	CG1	ILE	B	29	12.129	97.214	56.521	1.00	16.50	B	C
ATOM	2230	CD1	ILE	B	29	13.462	97.949	56.554	1.00	12.57	B	C
ATOM	2231	C	ILE	B	29	11.989	95.121	53.262	1.00	14.26	B	C
ATOM	2232	O	ILE	B	29	10.960	94.460	53.438	1.00	16.06	B	O
ATOM	2233	N	TYR	B	30	12.857	94.855	52.293	1.00	12.97	B	N
ATOM	2234	CA	TYR	B	30	12.667	93.728	51.382	1.00	12.66	B	C
ATOM	2235	CB	TYR	B	30	13.095	94.117	49.957	1.00	11.95	B	C
ATOM	2236	CG	TYR	B	30	12.831	93.042	48.913	1.00	11.71	B	C
ATOM	2237	CD1	TYR	B	30	11.703	93.097	48.096	1.00	9.69	B	C
ATOM	2238	CE1	TYR	B	30	11.441	92.100	47.149	1.00	12.54	B	C
ATOM	2239	CD2	TYR	B	30	13.700	91.958	48.762	1.00	12.15	B	C
ATOM	2240	CE2	TYR	B	30	13.449	90.953	47.817	1.00	14.27	B	C
ATOM	2241	CZ	TYR	B	30	12.319	91.033	47.014	1.00	14.57	B	C
ATOM	2242	OH	TYR	B	30	12.078	90.061	46.070	1.00	11.66	B	O
ATOM	2243	C	TYR	B	30	13.473	92.516	51.842	1.00	15.13	B	C
ATOM	2244	O	TYR	B	30	14.673	92.624	52.115	1.00	17.82	B	O
ATOM	2245	N	TYR	B	31	12.812	91.364	51.932	1.00	13.53	B	N
ATOM	2246	CA	TYR	B	31	13.488	90.144	52.350	1.00	13.30	B	C
ATOM	2247	CB	TYR	B	31	13.063	89.742	53.773	1.00	14.35	B	C
ATOM	2248	CG	TYR	B	31	13.588	88.381	54.209	1.00	13.93	B	C
ATOM	2249	CD1	TYR	B	31	14.955	88.143	54.318	1.00	13.81	B	C
ATOM	2250	CE1	TYR	B	31	15.446	86.887	54.682	1.00	16.52	B	C
ATOM	2251	CD2	TYR	B	31	12.712	87.326	54.481	1.00	15.49	B	C
ATOM	2252	CE2	TYR	B	31	13.191	86.064	54.850	1.00	17.62	B	C
ATOM	2253	CZ	TYR	B	31	14.563	85.852	54.946	1.00	14.49	B	C
ATOM	2254	OH	TYR	B	31	15.047	84.611	55.304	1.00	14.75	B	O
ATOM	2255	C	TYR	B	31	13.188	89.005	51.382	1.00	11.69	B	C
ATOM	2256	O	TYR	B	31	12.032	88.657	51.153	1.00	12.79	B	O
ATOM	2257	N	GLY	B	32	14.246	88.440	50.812	1.00	12.78	B	N
ATOM	2258	CA	GLY	B	32	14.093	87.327	49.896	1.00	11.28	B	C
ATOM	2259	C	GLY	B	32	14.761	86.117	50.522	1.00	13.78	B	C
ATOM	2260	O	GLY	B	32	15.950	86.162	50.839	1.00	11.17	B	O
ATOM	2261	N	ASP	B	33	14.002	85.040	50.710	1.00	14.25	B	N
ATOM	2262	CA	ASP	B	33	14.540	83.819	51.306	1.00	15.29	B	C
ATOM	2263	CB	ASP	B	33	13.391	82.987	51.885	1.00	13.57	B	C
ATOM	2264	CG	ASP	B	33	13.871	81.730	52.589	1.00	14.42	B	C
ATOM	2265	OD1	ASP	B	33	15.034	81.702	53.046	1.00	14.38	B	O
ATOM	2266	OD2	ASP	B	33	13.077	80.773	52.695	1.00	14.44	B	O
ATOM	2267	C	ASP	B	33	15.288	83.049	50.226	1.00	14.09	B	C
ATOM	2268	O	ASP	B	33	15.027	81.867	49.980	1.00	12.43	B	O
ATOM	2269	N	SER	B	34	16.238	83.739	49.597	1.00	14.94	B	N
ATOM	2270	CA	SER	B	34	17.016	83.186	48.490	1.00	14.92	B	C
ATOM	2271	CB	SER	B	34	17.941	84.268	47.908	1.00	13.20	B	C
ATOM	2272	OG	SER	B	34	18.886	84.714	48.863	1.00	14.39	B	O

Figure 700

ATOM	2273	C	SER	B	34	17.821	81.924	48.772	1.00	14.53	B	C
ATOM	2274	O	SER	B	34	18.348	81.308	47.849	1.00	12.91	B	O
ATOM	2275	N	ALA	B	35	17.930	81.535	50.034	1.00	13.97	B	N
ATOM	2276	CA	ALA	B	35	18.664	80.317	50.345	1.00	15.25	B	C
ATOM	2277	CB	ALA	B	35	19.050	80.297	51.820	1.00	15.69	B	C
ATOM	2278	C	ALA	B	35	17.801	79.101	50.023	1.00	15.43	B	C
ATOM	2279	O	ALA	B	35	18.321	78.010	49.776	1.00	13.55	B	O
ATOM	2280	N	ARG	B	36	16.484	79.296	50.000	1.00	13.78	B	N
ATOM	2281	CA	ARG	B	36	15.567	78.185	49.777	1.00	14.22	B	C
ATOM	2282	CB	ARG	B	36	14.697	78.023	51.027	1.00	13.17	B	C
ATOM	2283	CG	ARG	B	36	15.541	77.986	52.303	1.00	13.84	B	C
ATOM	2284	CD	ARG	B	36	14.775	77.513	53.520	1.00	16.20	B	C
ATOM	2285	NE	ARG	B	36	13.830	78.511	54.012	1.00	13.15	B	N
ATOM	2286	CZ	ARG	B	36	13.310	78.500	55.235	1.00	14.54	B	C
ATOM	2287	NH1	ARG	B	36	13.642	77.542	56.090	1.00	13.26	B	N
ATOM	2288	NH2	ARG	B	36	12.468	79.454	55.613	1.00	15.47	B	N
ATOM	2289	C	ARG	B	36	14.703	78.235	48.517	1.00	14.96	B	C
ATOM	2290	O	ARG	B	36	13.971	77.288	48.220	1.00	16.93	B	O
ATOM	2291	N	VAL	B	37	14.791	79.328	47.770	1.00	14.56	B	N
ATOM	2292	CA	VAL	B	37	14.036	79.461	46.530	1.00	15.83	B	C
ATOM	2293	CB	VAL	B	37	14.327	80.840	45.875	1.00	16.33	B	C
ATOM	2294	CG1	VAL	B	37	15.775	80.909	45.422	1.00	16.98	B	C
ATOM	2295	CG2	VAL	B	37	13.379	81.093	44.719	1.00	16.47	B	C
ATOM	2296	C	VAL	B	37	14.452	78.312	45.587	1.00	14.68	B	C
ATOM	2297	O	VAL	B	37	15.615	77.895	45.575	1.00	15.45	B	O
ATOM	2298	N	PRO	B	38	13.511	77.780	44.790	1.00	14.64	B	N
ATOM	2299	CD	PRO	B	38	13.845	76.783	43.755	1.00	11.60	B	C
ATOM	2300	CA	PRO	B	38	12.102	78.160	44.696	1.00	14.93	B	C
ATOM	2301	CB	PRO	B	38	11.743	77.754	43.271	1.00	13.51	B	C
ATOM	2302	CG	PRO	B	38	12.485	76.470	43.123	1.00	15.17	B	C
ATOM	2303	C	PRO	B	38	11.191	77.489	45.710	1.00	15.27	B	C
ATOM	2304	O	PRO	B	38	11.510	76.437	46.274	1.00	13.54	B	O
ATOM	2305	N	TYR	B	39	10.043	78.118	45.915	1.00	13.69	B	N
ATOM	2306	CA	TYR	B	39	9.013	77.623	46.811	1.00	13.90	B	C
ATOM	2307	CB	TYR	B	39	8.268	78.798	47.444	1.00	13.72	B	C
ATOM	2308	CG	TYR	B	39	8.922	79.471	48.624	1.00	10.70	B	C
ATOM	2309	CD1	TYR	B	39	10.268	79.261	48.937	1.00	10.84	B	C
ATOM	2310	CE1	TYR	B	39	10.860	79.906	50.023	1.00	12.25	B	C
ATOM	2311	CD2	TYR	B	39	8.186	80.344	49.426	1.00	12.79	B	C
ATOM	2312	CE2	TYR	B	39	8.766	80.996	50.514	1.00	12.39	B	C
ATOM	2313	CZ	TYR	B	39	10.104	80.772	50.809	1.00	13.35	B	C
ATOM	2314	OH	TYR	B	39	10.674	81.405	51.893	1.00	12.01	B	O
ATOM	2315	C	TYR	B	39	7.997	76.821	45.987	1.00	14.02	B	C
ATOM	2316	O	TYR	B	39	7.451	75.827	46.455	1.00	15.23	B	O
ATOM	2317	N	GLY	B	40	7.752	77.290	44.765	1.00	16.75	B	N
ATOM	2318	CA	GLY	B	40	6.768	76.686	43.874	1.00	16.84	B	C
ATOM	2319	C	GLY	B	40	6.860	75.212	43.525	1.00	16.65	B	C
ATOM	2320	O	GLY	B	40	5.886	74.620	43.049	1.00	14.08	B	O
ATOM	2321	N	THR	B	41	8.017	74.611	43.766	1.00	15.91	B	N
ATOM	2322	CA	THR	B	41	8.225	73.204	43.440	1.00	16.59	B	C
ATOM	2323	CB	THR	B	41	9.636	72.990	42.900	1.00	16.07	B	C
ATOM	2324	OG1	THR	B	41	10.580	73.477	43.861	1.00	15.88	B	O
ATOM	2325	CG2	THR	B	41	9.817	73.737	41.592	1.00	19.86	B	C
ATOM	2326	C	THR	B	41	8.072	72.320	44.659	1.00	16.87	B	C
ATOM	2327	O	THR	B	41	8.245	71.099	44.584	1.00	18.68	B	O
ATOM	2328	N	LYS	B	42	7.742	72.939	45.783	1.00	16.57	B	N
ATOM	2329	CA	LYS	B	42	7.647	72.178	47.002	1.00	16.66	B	C
ATOM	2330	CB	LYS	B	42	8.592	72.768	48.035	1.00	15.39	B	C

Figure 7PP

ATOM	2331	CG	LYS	B	42	10.049	72.613	47.578	1.00	16.40	B	C
ATOM	2332	CD	LYS	B	42	10.942	73.766	47.995	1.00	12.99	B	C
ATOM	2333	CE	LYS	B	42	12.343	73.611	47.372	1.00	12.98	B	C
ATOM	2334	NZ	LYS	B	42	13.246	74.754	47.688	1.00	12.01	B	N
ATOM	2335	C	LYS	B	42	6.273	71.981	47.593	1.00	19.30	B	C
ATOM	2336	O	LYS	B	42	5.311	72.659	47.234	1.00	19.46	B	O
ATOM	2337	N	ASP	B	43	6.206	71.042	48.526	1.00	19.11	B	N
ATOM	2338	CA	ASP	B	43	4.903	70.766	49.089	1.00	20.39	B	C
ATOM	2339	CB	ASP	B	43	4.970	69.389	49.727	1.00	26.23	B	C
ATOM	2340	CG	ASP	B	43	3.668	68.908	50.218	1.00	34.18	B	C
ATOM	2341	OD1	ASP	B	43	3.032	69.628	51.023	1.00	35.73	B	O
ATOM	2342	OD2	ASP	B	43	3.286	67.802	49.834	1.00	34.67	B	O
ATOM	2343	C	ASP	B	43	4.324	71.860	50.037	1.00	18.74	B	C
ATOM	2344	O	ASP	B	43	5.067	72.590	50.662	1.00	17.52	B	O
ATOM	2345	N	PRO	B	44	2.970	71.973	50.139	1.00	16.86	B	N
ATOM	2346	CD	PRO	B	44	1.945	71.249	49.366	1.00	16.70	B	C
ATOM	2347	CA	PRO	B	44	2.316	72.976	51.001	1.00	15.67	B	C
ATOM	2348	CB	PRO	B	44	0.838	72.608	50.910	1.00	16.57	B	C
ATOM	2349	CG	PRO	B	44	0.714	72.164	49.520	1.00	15.09	B	C
ATOM	2350	C	PRO	B	44	2.785	73.063	52.460	1.00	14.32	B	C
ATOM	2351	O	PRO	B	44	2.975	74.159	52.984	1.00	14.18	B	O
ATOM	2352	N	THR	B	45	2.968	71.928	53.125	1.00	12.56	B	N
ATOM	2353	CA	THR	B	45	3.404	71.976	54.513	1.00	15.07	B	C
ATOM	2354	CB	THR	B	45	3.416	70.544	55.159	1.00	14.56	B	C
ATOM	2355	OG1	THR	B	45	3.473	70.671	56.582	1.00	20.74	B	O
ATOM	2356	CG2	THR	B	45	4.617	69.725	54.690	1.00	16.79	B	C
ATOM	2357	C	THR	B	45	4.773	72.673	54.661	1.00	13.75	B	C
ATOM	2358	O	THR	B	45	5.015	73.370	55.644	1.00	15.18	B	O
ATOM	2359	N	THR	B	46	5.652	72.512	53.675	1.00	14.31	B	N
ATOM	2360	CA	THR	B	46	6.978	73.138	53.708	1.00	13.76	B	C
ATOM	2361	CB	THR	B	46	7.908	72.534	52.625	1.00	15.70	B	C
ATOM	2362	OG1	THR	B	46	8.111	71.139	52.888	1.00	16.08	B	O
ATOM	2363	CG2	THR	B	46	9.257	73.237	52.611	1.00	14.55	B	C
ATOM	2364	C	THR	B	46	6.874	74.645	53.463	1.00	14.40	B	C
ATOM	2365	O	THR	B	46	7.538	75.450	54.120	1.00	12.91	B	O
ATOM	2366	N	ILE	B	47	6.029	75.016	52.509	1.00	12.98	B	N
ATOM	2367	CA	ILE	B	47	5.843	76.414	52.159	1.00	14.06	B	C
ATOM	2368	CB	ILE	B	47	4.987	76.537	50.881	1.00	12.60	B	C
ATOM	2369	CG2	ILE	B	47	4.790	78.005	50.517	1.00	13.35	B	C
ATOM	2370	CG1	ILE	B	47	5.684	75.804	49.727	1.00	14.48	B	C
ATOM	2371	CD1	ILE	B	47	4.831	75.660	48.469	1.00	13.95	B	C
ATOM	2372	C	ILE	B	47	5.193	77.190	53.305	1.00	13.29	B	C
ATOM	2373	O	ILE	B	47	5.588	78.314	53.610	1.00	12.68	B	O
ATOM	2374	N	LYS	B	48	4.199	76.594	53.948	1.00	13.12	B	N
ATOM	2375	CA	LYS	B	48	3.541	77.279	55.047	1.00	14.82	B	C
ATOM	2376	CB	LYS	B	48	2.387	76.440	55.606	1.00	15.61	B	C
ATOM	2377	CG	LYS	B	48	1.239	76.283	54.621	1.00	16.82	B	C
ATOM	2378	CD	LYS	B	48	0.021	75.649	55.261	1.00	17.71	B	C
ATOM	2379	CE	LYS	B	48	-1.123	75.558	54.259	1.00	21.58	B	C
ATOM	2380	NZ	LYS	B	48	-2.370	75.047	54.891	1.00	23.95	B	N
ATOM	2381	C	LYS	B	48	4.537	77.600	56.145	1.00	15.64	B	C
ATOM	2382	O	LYS	B	48	4.546	78.719	56.661	1.00	14.41	B	O
ATOM	2383	N	GLN	B	49	5.383	76.630	56.493	1.00	13.94	B	N
ATOM	2384	CA	GLN	B	49	6.388	76.836	57.533	1.00	14.63	B	C
ATOM	2385	CB	GLN	B	49	7.127	75.520	57.822	1.00	15.57	B	C
ATOM	2386	CG	GLN	B	49	8.185	75.577	58.930	1.00	19.33	B	C
ATOM	2387	CD	GLN	B	49	7.656	76.099	60.258	1.00	18.82	B	C
ATOM	2388	OE1	GLN	B	49	6.509	75.840	60.638	1.00	17.48	B	O

Figure 7QQ

ATOM	2389	NE2 GLN B 49	8.498	76.826	60.977	1.00	19.58	B	N
ATOM	2390	C GLN B 49	7.357	77.934	57.091	1.00	15.00	B	C
ATOM	2391	O GLN B 49	7.754	78.773	57.898	1.00	15.49	B	O
ATOM	2392	N PHE B 50	7.732	77.936	55.812	1.00	13.73	B	N
ATOM	2393	CA PHE B 50	8.617	78.978	55.297	1.00	12.73	B	C
ATOM	2394	CB PHE B 50	8.813	78.845	53.784	1.00	12.69	B	C
ATOM	2395	CG PHE B 50	9.756	77.740	53.372	1.00	14.11	B	C
ATOM	2396	CD1 PHE B 50	10.540	77.073	54.310	1.00	13.47	B	C
ATOM	2397	CD2 PHE B 50	9.884	77.396	52.028	1.00	16.97	B	C
ATOM	2398	CE1 PHE B 50	11.442	76.080	53.915	1.00	14.96	B	C
ATOM	2399	CE2 PHE B 50	10.784	76.405	51.622	1.00	16.26	B	C
ATOM	2400	CZ PHE B 50	11.563	75.747	52.569	1.00	13.12	B	C
ATOM	2401	C PHE B 50	7.999	80.348	55.586	1.00	12.88	B	C
ATOM	2402	O PHE B 50	8.690	81.281	55.998	1.00	14.04	B	O
ATOM	2403	N GLY B 51	6.692	80.460	55.353	1.00	13.99	B	N
ATOM	2404	CA GLY B 51	5.992	81.712	55.590	1.00	13.72	B	C
ATOM	2405	C GLY B 51	6.023	82.158	57.043	1.00	14.83	B	C
ATOM	2406	O GLY B 51	6.243	83.334	57.331	1.00	11.98	B	O
ATOM	2407	N LEU B 52	5.788	81.227	57.966	1.00	15.32	B	N
ATOM	2408	CA LEU B 52	5.815	81.555	59.388	1.00	18.38	B	C
ATOM	2409	CB LEU B 52	5.525	80.320	60.248	1.00	18.53	B	C
ATOM	2410	CG LEU B 52	4.074	79.939	60.511	1.00	24.25	B	C
ATOM	2411	CD1 LEU B 52	3.349	79.724	59.198	1.00	27.80	B	C
ATOM	2412	CD2 LEU B 52	4.037	78.679	61.371	1.00	26.46	B	C
ATOM	2413	C LEU B 52	7.184	82.091	59.757	1.00	18.61	B	C
ATOM	2414	O LEU B 52	7.303	83.096	60.455	1.00	21.72	B	O
ATOM	2415	N GLU B 53	8.219	81.404	59.289	1.00	18.50	B	N
ATOM	2416	CA GLU B 53	9.584	81.811	59.573	1.00	17.94	B	C
ATOM	2417	CB GLU B 53	10.551	80.751	59.038	1.00	17.42	B	C
ATOM	2418	CG GLU B 53	10.566	79.507	59.927	1.00	15.49	B	C
ATOM	2419	CD GLU B 53	11.305	78.332	59.323	1.00	17.96	B	C
ATOM	2420	OE1 GLU B 53	12.087	78.534	58.374	1.00	18.58	B	O
ATOM	2421	OE2 GLU B 53	11.105	77.201	59.813	1.00	19.70	B	O
ATOM	2422	C GLU B 53	9.897	83.193	59.005	1.00	18.71	B	C
ATOM	2423	O GLU B 53	10.680	83.945	59.579	1.00	19.86	B	O
ATOM	2424	N ALA B 54	9.271	83.537	57.885	1.00	18.53	B	N
ATOM	2425	CA ALA B 54	9.492	84.848	57.283	1.00	16.14	B	C
ATOM	2426	CB ALA B 54	8.744	84.951	55.954	1.00	13.28	B	C
ATOM	2427	C ALA B 54	9.009	85.934	58.257	1.00	18.34	B	C
ATOM	2428	O ALA B 54	9.636	86.987	58.393	1.00	16.94	B	O
ATOM	2429	N LEU B 55	7.898	85.669	58.941	1.00	17.14	B	N
ATOM	2430	CA LEU B 55	7.361	86.629	59.901	1.00	18.57	B	C
ATOM	2431	CB LEU B 55	6.118	86.060	60.594	1.00	19.89	B	C
ATOM	2432	CG LEU B 55	4.827	85.855	59.795	1.00	20.72	B	C
ATOM	2433	CD1 LEU B 55	3.771	85.221	60.706	1.00	22.99	B	C
ATOM	2434	CD2 LEU B 55	4.321	87.192	59.251	1.00	23.42	B	C
ATOM	2435	C LEU B 55	8.405	86.999	60.956	1.00	18.71	B	C
ATOM	2436	O LEU B 55	8.555	88.170	61.301	1.00	17.21	B	O
ATOM	2437	N ASP B 56	9.131	86.002	61.458	1.00	18.83	B	N
ATOM	2438	CA ASP B 56	10.151	86.241	62.474	1.00	18.36	B	C
ATOM	2439	CB ASP B 56	10.829	84.924	62.881	1.00	21.45	B	C
ATOM	2440	CG ASP B 56	9.875	83.958	63.581	1.00	24.57	B	C
ATOM	2441	OD1 ASP B 56	9.003	84.419	64.344	1.00	27.38	B	O
ATOM	2442	OD2 ASP B 56	10.005	82.729	63.383	1.00	26.87	B	O
ATOM	2443	C ASP B 56	11.211	87.240	62.014	1.00	19.11	B	C
ATOM	2444	O ASP B 56	11.669	88.082	62.792	1.00	17.72	B	O
ATOM	2445	N PHE B 57	11.598	87.154	60.746	1.00	17.66	B	N
ATOM	2446	CA PHE B 57	12.607	88.063	60.216	1.00	16.52	B	C

Figure 7RR

ATOM	2447	CB	PHE	B	57	12.867	87.794	58.732	1.00	16.73	B	C
ATOM	2448	CG	PHE	B	57	13.656	88.879	58.071	1.00	17.10	B	C
ATOM	2449	CD1	PHE	B	57	15.035	88.958	58.247	1.00	19.76	B	C
ATOM	2450	CD2	PHE	B	57	13.010	89.889	57.366	1.00	14.93	B	C
ATOM	2451	CE1	PHE	B	57	15.759	90.031	57.738	1.00	19.78	B	C
ATOM	2452	CE2	PHE	B	57	13.721	90.966	56.854	1.00	19.53	B	C
ATOM	2453	CZ	PHE	B	57	15.100	91.039	57.041	1.00	19.60	B	C
ATOM	2454	C	PHE	B	57	12.222	89.529	60.360	1.00	16.52	B	C
ATOM	2455	O	PHE	B	57	13.057	90.365	60.699	1.00	18.03	B	O
ATOM	2456	N	PHE	B	58	10.962	89.842	60.082	1.00	15.91	B	N
ATOM	2457	CA	PHE	B	58	10.497	91.222	60.144	1.00	18.80	B	C
ATOM	2458	CB	PHE	B	58	9.233	91.385	59.295	1.00	17.22	B	C
ATOM	2459	CG	PHE	B	58	9.465	91.219	57.825	1.00	18.15	B	C
ATOM	2460	CD1	PHE	B	58	9.217	90.004	57.199	1.00	18.00	B	C
ATOM	2461	CD2	PHE	B	58	9.927	92.283	57.061	1.00	17.52	B	C
ATOM	2462	CE1	PHE	B	58	9.423	89.852	55.831	1.00	16.31	B	C
ATOM	2463	CE2	PHE	B	58	10.136	92.142	55.694	1.00	16.57	B	C
ATOM	2464	CZ	PHE	B	58	9.884	90.924	55.077	1.00	17.04	B	C
ATOM	2465	C	PHE	B	58	10.224	91.809	61.522	1.00	18.66	B	C
ATOM	2466	O	PHE	B	58	10.140	93.028	61.662	1.00	21.14	B	O
ATOM	2467	N	LYS	B	59	10.080	90.958	62.531	1.00	19.45	B	N
ATOM	2468	CA	LYS	B	59	9.769	91.429	63.877	1.00	21.34	B	C
ATOM	2469	CB	LYS	B	59	9.816	90.258	64.858	1.00	22.87	B	C
ATOM	2470	CG	LYS	B	59	8.740	89.213	64.571	1.00	27.48	B	C
ATOM	2471	CD	LYS	B	59	8.762	88.088	65.585	1.00	28.84	B	C
ATOM	2472	CE	LYS	B	59	7.612	87.121	65.345	1.00	32.72	B	C
ATOM	2473	NZ	LYS	B	59	6.308	87.829	65.430	1.00	35.68	B	N
ATOM	2474	C	LYS	B	59	10.614	92.596	64.384	1.00	20.43	B	C
ATOM	2475	O	LYS	B	59	10.073	93.621	64.792	1.00	19.96	B	O
ATOM	2476	N	PRO	B	60	11.948	92.468	64.356	1.00	20.32	B	N
ATOM	2477	CD	PRO	B	60	12.784	91.337	63.911	1.00	19.12	B	C
ATOM	2478	CA	PRO	B	60	12.776	93.579	64.837	1.00	19.99	B	C
ATOM	2479	CB	PRO	B	60	14.181	92.980	64.848	1.00	21.24	B	C
ATOM	2480	CG	PRO	B	60	14.131	91.991	63.719	1.00	22.69	B	C
ATOM	2481	C	PRO	B	60	12.690	94.859	63.995	1.00	20.53	B	C
ATOM	2482	O	PRO	B	60	13.030	95.943	64.472	1.00	18.48	B	O
ATOM	2483	N	HIS	B	61	12.221	94.740	62.756	1.00	18.92	B	N
ATOM	2484	CA	HIS	B	61	12.116	95.896	61.871	1.00	20.35	B	C
ATOM	2485	CB	HIS	B	61	12.099	95.433	60.413	1.00	19.99	B	C
ATOM	2486	CG	HIS	B	61	13.409	94.875	59.953	1.00	19.89	B	C
ATOM	2487	CD2	HIS	B	61	13.820	93.599	59.768	1.00	21.62	B	C
ATOM	2488	ND1	HIS	B	61	14.499	95.673	59.678	1.00	21.05	B	N
ATOM	2489	CE1	HIS	B	61	15.526	94.912	59.343	1.00	22.27	B	C
ATOM	2490	NE2	HIS	B	61	15.142	93.649	59.390	1.00	21.05	B	N
ATOM	2491	C	HIS	B	61	10.904	96.770	62.170	1.00	21.73	B	C
ATOM	2492	O	HIS	B	61	10.808	97.899	61.691	1.00	22.05	B	O
ATOM	2493	N	GLU	B	62	9.985	96.242	62.969	1.00	21.87	B	N
ATOM	2494	CA	GLU	B	62	8.792	96.982	63.354	1.00	23.56	B	C
ATOM	2495	CB	GLU	B	62	9.181	98.106	64.318	1.00	24.92	B	C
ATOM	2496	CG	GLU	B	62	10.003	97.606	65.496	1.00	30.01	B	C
ATOM	2497	CD	GLU	B	62	10.361	98.699	66.481	1.00	33.69	B	C
ATOM	2498	OE1	GLU	B	62	10.896	99.743	66.053	1.00	35.60	B	O
ATOM	2499	OE2	GLU	B	62	10.116	98.505	67.688	1.00	36.17	B	O
ATOM	2500	C	GLU	B	62	8.044	97.552	62.157	1.00	22.92	B	C
ATOM	2501	O	GLU	B	62	7.701	98.739	62.126	1.00	21.97	B	O
ATOM	2502	N	ILE	B	63	7.795	96.706	61.164	1.00	19.69	B	N
ATOM	2503	CA	ILE	B	63	7.064	97.144	59.987	1.00	18.17	B	C
ATOM	2504	CB	ILE	B	63	7.236	96.149	58.825	1.00	17.22	B	C

Figure 7SS

ATOM	2505	CG2 ILE B 63	8.686	96.146	58.370	1.00	15.56	B	C
ATOM	2506	CG1 ILE B 63	6.817	94.746	59.269	1.00	15.21	B	C
ATOM	2507	CD1 ILE B 63	6.745	93.736	58.131	1.00	15.19	B	C
ATOM	2508	C ILE B 63	5.590	97.258	60.375	1.00	18.21	B	C
ATOM	2509	O ILE B 63	5.127	96.575	61.294	1.00	17.53	B	O
ATOM	2510	N GLU B 64	4.859	98.125	59.683	1.00	16.97	B	N
ATOM	2511	CA GLU B 64	3.445	98.349	59.985	1.00	17.61	B	C
ATOM	2512	CB GLU B 64	3.089	99.813	59.718	1.00	18.92	B	C
ATOM	2513	CG GLU B 64	3.934	100.801	60.499	1.00	23.07	B	C
ATOM	2514	CD GLU B 64	3.697	102.235	60.067	1.00	26.42	B	C
ATOM	2515	OE1 GLU B 64	2.541	102.702	60.167	1.00	28.70	B	O
ATOM	2516	OE2 GLU B 64	4.667	102.889	59.624	1.00	25.35	B	O
ATOM	2517	C GLU B 64	2.511	97.452	59.187	1.00	16.83	B	C
ATOM	2518	O GLU B 64	1.349	97.259	59.548	1.00	16.07	B	O
ATOM	2519	N LEU B 65	3.035	96.896	58.104	1.00	17.77	B	N
ATOM	2520	CA LEU B 65	2.261	96.031	57.232	1.00	16.43	B	C
ATOM	2521	CB LEU B 65	1.398	96.895	56.302	1.00	18.09	B	C
ATOM	2522	CG LEU B 65	0.640	96.266	55.133	1.00	21.97	B	C
ATOM	2523	CD1 LEU B 65	-0.529	97.164	54.757	1.00	21.04	B	C
ATOM	2524	CD2 LEU B 65	1.572	96.066	53.944	1.00	20.71	B	C
ATOM	2525	C LEU B 65	3.244	95.195	56.430	1.00	14.51	B	C
ATOM	2526	O LEU B 65	4.345	95.648	56.123	1.00	12.92	B	O
ATOM	2527	N LEU B 66	2.853	93.971	56.102	1.00	14.75	B	N
ATOM	2528	CA LEU B 66	3.722	93.092	55.329	1.00	14.89	B	C
ATOM	2529	CB LEU B 66	4.020	91.810	56.110	1.00	14.10	B	C
ATOM	2530	CG LEU B 66	4.753	90.716	55.326	1.00	16.87	B	C
ATOM	2531	CD1 LEU B 66	6.149	91.214	54.949	1.00	16.67	B	C
ATOM	2532	CD2 LEU B 66	4.844	89.433	56.169	1.00	17.63	B	C
ATOM	2533	C LEU B 66	3.091	92.722	53.995	1.00	14.55	B	C
ATOM	2534	O LEU B 66	1.911	92.374	53.923	1.00	16.90	B	O
ATOM	2535	N ILE B 67	3.884	92.813	52.937	1.00	14.59	B	N
ATOM	2536	CA ILE B 67	3.422	92.451	51.610	1.00	14.92	B	C
ATOM	2537	CB ILE B 67	3.775	93.524	50.560	1.00	17.24	B	C
ATOM	2538	CG2 ILE B 67	3.458	93.000	49.150	1.00	14.44	B	C
ATOM	2539	CG1 ILE B 67	2.995	94.815	50.846	1.00	17.41	B	C
ATOM	2540	CD1 ILE B 67	3.287	95.933	49.859	1.00	18.39	B	C
ATOM	2541	C ILE B 67	4.117	91.159	51.207	1.00	13.22	B	C
ATOM	2542	O ILE B 67	5.344	91.077	51.219	1.00	13.66	B	O
ATOM	2543	N VAL B 68	3.330	90.144	50.875	1.00	13.61	B	N
ATOM	2544	CA VAL B 68	3.898	88.878	50.430	1.00	13.77	B	C
ATOM	2545	CB VAL B 68	3.065	87.683	50.915	1.00	12.35	B	C
ATOM	2546	CG1 VAL B 68	3.692	86.381	50.426	1.00	10.26	B	C
ATOM	2547	CG2 VAL B 68	2.991	87.699	52.438	1.00	12.86	B	C
ATOM	2548	C VAL B 68	3.865	88.950	48.907	1.00	12.64	B	C
ATOM	2549	O VAL B 68	2.839	88.673	48.283	1.00	14.77	B	O
ATOM	2550	N ALA B 69	4.988	89.349	48.319	1.00	12.26	B	N
ATOM	2551	CA ALA B 69	5.101	89.499	46.870	1.00	10.06	B	C
ATOM	2552	CB ALA B 69	6.412	90.194	46.529	1.00	9.84	B	C
ATOM	2553	C ALA B 69	5.027	88.163	46.147	1.00	12.35	B	C
ATOM	2554	O ALA B 69	4.635	88.096	44.980	1.00	9.71	B	O
ATOM	2555	N CYS B 70	5.427	87.104	46.844	1.00	11.11	B	N
ATOM	2556	CA CYS B 70	5.418	85.766	46.273	1.00	11.24	B	C
ATOM	2557	CB CYS B 70	6.207	84.816	47.176	1.00	11.62	B	C
ATOM	2558	SG CYS B 70	6.347	83.142	46.504	1.00	12.64	B	S
ATOM	2559	C CYS B 70	4.001	85.229	46.070	1.00	11.05	B	C
ATOM	2560	O CYS B 70	3.205	85.177	47.010	1.00	11.37	B	O
ATOM	2561	N ASN B 71	3.688	84.823	44.840	1.00	12.49	B	N
ATOM	2562	CA ASN B 71	2.365	84.279	44.543	1.00	11.50	B	C

Figure 7TT

ATOM	2563	CB	ASN	B	71	2.157	84.145	43.031	1.00	9.14	B	C
ATOM	2564	CG	ASN	B	71	2.258	85.471	42.306	1.00	11.76	B	C
ATOM	2565	OD1	ASN	B	71	3.344	86.024	42.151	1.00	10.78	B	O
ATOM	2566	ND2	ASN	B	71	1.117	85.996	41.867	1.00	11.54	B	N
ATOM	2567	C	ASN	B	71	2.192	82.909	45.186	1.00	12.35	B	C
ATOM	2568	O	ASN	B	71	1.078	82.526	45.575	1.00	8.22	B	O
ATOM	2569	N	THR	B	72	3.292	82.164	45.270	1.00	11.41	B	N
ATOM	2570	CA	THR	B	72	3.257	80.831	45.863	1.00	12.16	B	C
ATOM	2571	CB	THR	B	72	4.572	80.062	45.611	1.00	13.52	B	C
ATOM	2572	OG1	THR	B	72	4.704	79.791	44.212	1.00	14.69	B	O
ATOM	2573	CG2	THR	B	72	4.581	78.741	46.380	1.00	11.87	B	C
ATOM	2574	C	THR	B	72	3.012	80.915	47.357	1.00	12.59	B	C
ATOM	2575	O	THR	B	72	2.166	80.200	47.892	1.00	14.73	B	O
ATOM	2576	N	ALA	B	73	3.754	81.784	48.034	1.00	13.02	B	N
ATOM	2577	CA	ALA	B	73	3.576	81.953	49.471	1.00	13.51	B	C
ATOM	2578	CB	ALA	B	73	4.676	82.830	50.044	1.00	13.14	B	C
ATOM	2579	C	ALA	B	73	2.206	82.571	49.739	1.00	13.74	B	C
ATOM	2580	O	ALA	B	73	1.580	82.278	50.752	1.00	12.89	B	O
ATOM	2581	N	SER	B	74	1.751	83.437	48.830	1.00	14.66	B	N
ATOM	2582	CA	SER	B	74	0.439	84.066	48.967	1.00	14.25	B	C
ATOM	2583	CB	SER	B	74	0.212	85.099	47.853	1.00	13.54	B	C
ATOM	2584	OG	SER	B	74	0.996	86.268	48.040	1.00	13.45	B	O
ATOM	2585	C	SER	B	74	-0.655	83.002	48.877	1.00	16.32	B	C
ATOM	2586	O	SER	B	74	-1.668	83.065	49.575	1.00	14.08	B	O
ATOM	2587	N	ALA	B	75	-0.443	82.028	48.002	1.00	16.22	B	N
ATOM	2588	CA	ALA	B	75	-1.416	80.966	47.797	1.00	17.85	B	C
ATOM	2589	CB	ALA	B	75	-1.170	80.291	46.449	1.00	18.98	B	C
ATOM	2590	C	ALA	B	75	-1.438	79.911	48.890	1.00	18.56	B	C
ATOM	2591	O	ALA	B	75	-2.498	79.377	49.217	1.00	19.22	B	O
ATOM	2592	N	LEU	B	76	-0.274	79.608	49.455	1.00	17.86	B	N
ATOM	2593	CA	LEU	B	76	-0.196	78.570	50.473	1.00	19.90	B	C
ATOM	2594	CB	LEU	B	76	0.921	77.580	50.131	1.00	19.60	B	C
ATOM	2595	CG	LEU	B	76	0.703	76.565	49.004	1.00	21.94	B	C
ATOM	2596	CD1	LEU	B	76	-0.579	75.764	49.283	1.00	19.11	B	C
ATOM	2597	CD2	LEU	B	76	0.610	77.284	47.670	1.00	23.22	B	C
ATOM	2598	C	LEU	B	76	-0.021	78.978	51.925	1.00	19.97	B	C
ATOM	2599	O	LEU	B	76	-0.643	78.388	52.800	1.00	19.54	B	O
ATOM	2600	N	ALA	B	77	0.815	79.980	52.183	1.00	20.55	B	N
ATOM	2601	CA	ALA	B	77	1.111	80.380	53.559	1.00	22.00	B	C
ATOM	2602	CB	ALA	B	77	2.616	80.581	53.700	1.00	20.40	B	C
ATOM	2603	C	ALA	B	77	0.392	81.590	54.149	1.00	21.97	B	C
ATOM	2604	O	ALA	B	77	0.420	81.792	55.365	1.00	17.66	B	O
ATOM	2605	N	LEU	B	78	-0.247	82.386	53.299	1.00	23.46	B	N
ATOM	2606	CA	LEU	B	78	-0.916	83.595	53.757	1.00	24.17	B	C
ATOM	2607	CB	LEU	B	78	-1.634	84.271	52.583	1.00	23.46	B	C
ATOM	2608	CG	LEU	B	78	-2.166	85.692	52.799	1.00	24.62	B	C
ATOM	2609	CD1	LEU	B	78	-1.042	86.612	53.256	1.00	25.18	B	C
ATOM	2610	CD2	LEU	B	78	-2.770	86.204	51.499	1.00	21.11	B	C
ATOM	2611	C	LEU	B	78	-1.885	83.387	54.918	1.00	23.63	B	C
ATOM	2612	O	LEU	B	78	-1.820	84.098	55.918	1.00	20.90	B	O
ATOM	2613	N	GLU	B	79	-2.775	82.410	54.798	1.00	24.20	B	N
ATOM	2614	CA	GLU	B	79	-3.744	82.171	55.856	1.00	25.27	B	C
ATOM	2615	CB	GLU	B	79	-4.643	80.987	55.496	1.00	27.94	B	C
ATOM	2616	CG	GLU	B	79	-5.845	80.830	56.417	1.00	34.09	B	C
ATOM	2617	CD	GLU	B	79	-6.760	79.694	55.997	1.00	36.98	B	C
ATOM	2618	OE1	GLU	B	79	-7.246	79.714	54.847	1.00	38.97	B	O
ATOM	2619	OE2	GLU	B	79	-6.994	78.781	56.818	1.00	40.71	B	O
ATOM	2620	C	GLU	B	79	-3.066	81.921	57.199	1.00	24.66	B	C

Figure 7UU

ATOM	2621	O	GLU	B	79	-3.434	82.519	58.208	1.00	21.76	B	O
ATOM	2622	N	GLU	B	80	-2.063	81.050	57.213	1.00	25.11	B	N
ATOM	2623	CA	GLU	B	80	-1.367	80.740	58.455	1.00	25.16	B	C
ATOM	2624	CB	GLU	B	80	-0.425	79.549	58.249	1.00	30.59	B	C
ATOM	2625	CG	GLU	B	80	-0.324	78.632	59.464	1.00	36.68	B	C
ATOM	2626	CD	GLU	B	80	-1.674	78.055	59.876	1.00	39.61	B	C
ATOM	2627	OE1	GLU	B	80	-2.275	77.297	59.085	1.00	42.54	B	O
ATOM	2628	OE2	GLU	B	80	-2.139	78.363	60.993	1.00	41.38	B	O
ATOM	2629	C	GLU	B	80	-0.587	81.942	58.987	1.00	24.73	B	C
ATOM	2630	O	GLU	B	80	-0.590	82.211	60.190	1.00	24.93	B	O
ATOM	2631	N	MET	B	81	0.072	82.670	58.092	1.00	22.49	B	N
ATOM	2632	CA	MET	B	81	0.851	83.838	58.492	1.00	20.82	B	C
ATOM	2633	CB	MET	B	81	1.559	84.437	57.275	1.00	18.38	B	C
ATOM	2634	CG	MET	B	81	2.671	83.563	56.717	1.00	18.17	B	C
ATOM	2635	SD	MET	B	81	3.255	84.147	55.112	1.00	17.68	B	S
ATOM	2636	CE	MET	B	81	4.308	85.481	55.573	1.00	12.45	B	C
ATOM	2637	C	MET	B	81	-0.015	84.907	59.155	1.00	20.81	B	C
ATOM	2638	O	MET	B	81	0.382	85.508	60.154	1.00	19.23	B	O
ATOM	2639	N	GLN	B	82	-1.193	85.145	58.589	1.00	20.82	B	N
ATOM	2640	CA	GLN	B	82	-2.111	86.145	59.129	1.00	22.97	B	C
ATOM	2641	CB	GLN	B	82	-3.286	86.367	58.168	1.00	23.14	B	C
ATOM	2642	CG	GLN	B	82	-2.861	86.867	56.787	1.00	22.68	B	C
ATOM	2643	CD	GLN	B	82	-4.024	87.016	55.821	1.00	25.48	B	C
ATOM	2644	OE1	GLN	B	82	-4.830	86.097	55.650	1.00	24.87	B	O
ATOM	2645	NE2	GLN	B	82	-4.110	88.175	55.172	1.00	25.37	B	N
ATOM	2646	C	GLN	B	82	-2.627	85.695	60.482	1.00	22.69	B	C
ATOM	2647	O	GLN	B	82	-2.905	86.514	61.357	1.00	22.32	B	O
ATOM	2648	N	LYS	B	83	-2.752	84.387	60.656	1.00	24.09	B	N
ATOM	2649	CA	LYS	B	83	-3.235	83.851	61.918	1.00	25.60	B	C
ATOM	2650	CB	LYS	B	83	-3.376	82.328	61.829	1.00	27.86	B	C
ATOM	2651	CG	LYS	B	83	-3.766	81.658	63.141	1.00	32.07	B	C
ATOM	2652	CD	LYS	B	83	-3.799	80.148	62.990	1.00	33.64	B	C
ATOM	2653	CE	LYS	B	83	-4.118	79.453	64.308	1.00	38.06	B	C
ATOM	2654	NZ	LYS	B	83	-4.127	77.965	64.142	1.00	38.15	B	N
ATOM	2655	C	LYS	B	83	-2.298	84.218	63.065	1.00	25.66	B	C
ATOM	2656	O	LYS	B	83	-2.750	84.586	64.149	1.00	23.94	B	O
ATOM	2657	N	TYR	B	84	-0.993	84.134	62.825	1.00	25.08	B	N
ATOM	2658	CA	TYR	B	84	-0.022	84.442	63.870	1.00	24.54	B	C
ATOM	2659	CB	TYR	B	84	1.063	83.367	63.913	1.00	27.22	B	C
ATOM	2660	CG	TYR	B	84	0.542	81.986	64.219	1.00	30.76	B	C
ATOM	2661	CD1	TYR	B	84	0.162	81.119	63.195	1.00	31.28	B	C
ATOM	2662	CE1	TYR	B	84	-0.325	79.844	63.476	1.00	34.59	B	C
ATOM	2663	CD2	TYR	B	84	0.421	81.546	65.538	1.00	32.96	B	C
ATOM	2664	CE2	TYR	B	84	-0.066	80.276	65.832	1.00	35.61	B	C
ATOM	2665	CZ	TYR	B	84	-0.435	79.430	64.797	1.00	36.06	B	C
ATOM	2666	OH	TYR	B	84	-0.904	78.167	65.089	1.00	37.33	B	O
ATOM	2667	C	TYR	B	84	0.641	85.808	63.764	1.00	23.89	B	C
ATOM	2668	O	TYR	B	84	1.704	86.030	64.341	1.00	25.50	B	O
ATOM	2669	N	SER	B	85	0.014	86.726	63.040	1.00	22.10	B	N
ATOM	2670	CA	SER	B	85	0.563	88.067	62.874	1.00	21.74	B	C
ATOM	2671	CB	SER	B	85	0.884	88.323	61.397	1.00	19.79	B	C
ATOM	2672	OG	SER	B	85	1.259	89.673	61.181	1.00	25.60	B	O
ATOM	2673	C	SER	B	85	-0.413	89.127	63.374	1.00	21.62	B	C
ATOM	2674	O	SER	B	85	-1.621	89.009	63.177	1.00	21.34	B	O
ATOM	2675	N	LYS	B	86	0.107	90.157	64.031	1.00	20.33	B	N
ATOM	2676	CA	LYS	B	86	-0.750	91.221	64.519	1.00	22.30	B	C
ATOM	2677	CB	LYS	B	86	-0.235	91.776	65.853	1.00	25.37	B	C
ATOM	2678	CG	LYS	B	86	1.182	92.304	65.826	1.00	31.07	B	C

Figure 7VV

ATOM	2679	CD	LYS	B	86	1.629	92.685	67.231	1.00	35.40	B	C
ATOM	2680	CE	LYS	B	86	1.562	91.486	68.175	1.00	35.66	B	C
ATOM	2681	NZ	LYS	B	86	1.952	91.849	69.565	1.00	39.76	B	N
ATOM	2682	C	LYS	B	86	-0.860	92.333	63.482	1.00	22.13	B	C
ATOM	2683	O	LYS	B	86	-1.871	93.028	63.433	1.00	23.41	B	O
ATOM	2684	N	ILE	B	87	0.169	92.499	62.649	1.00	20.24	B	N
ATOM	2685	CA	ILE	B	87	0.127	93.524	61.605	1.00	18.31	B	C
ATOM	2686	CB	ILE	B	87	1.543	94.004	61.181	1.00	16.92	B	C
ATOM	2687	CG2	ILE	B	87	2.244	94.688	62.359	1.00	18.70	B	C
ATOM	2688	CG1	ILE	B	87	2.361	92.822	60.650	1.00	17.63	B	C
ATOM	2689	CD1	ILE	B	87	3.721	93.203	60.117	1.00	17.00	B	C
ATOM	2690	C	ILE	B	87	-0.559	92.921	60.384	1.00	17.72	B	C
ATOM	2691	O	ILE	B	87	-0.553	91.707	60.193	1.00	18.08	B	O
ATOM	2692	N	PRO	B	88	-1.173	93.762	59.542	1.00	18.77	B	N
ATOM	2693	CD	PRO	B	88	-1.340	95.223	59.619	1.00	17.15	B	C
ATOM	2694	CA	PRO	B	88	-1.839	93.216	58.358	1.00	19.35	B	C
ATOM	2695	CB	PRO	B	88	-2.575	94.428	57.789	1.00	20.10	B	C
ATOM	2696	CG	PRO	B	88	-1.691	95.572	58.194	1.00	21.95	B	C
ATOM	2697	C	PRO	B	88	-0.844	92.619	57.360	1.00	18.71	B	C
ATOM	2698	O	PRO	B	88	0.247	93.148	57.163	1.00	18.85	B	O
ATOM	2699	N	ILE	B	89	-1.222	91.498	56.759	1.00	17.91	B	N
ATOM	2700	CA	ILE	B	89	-0.387	90.848	55.757	1.00	17.91	B	C
ATOM	2701	CB	ILE	B	89	-0.011	89.404	56.164	1.00	18.44	B	C
ATOM	2702	CG2	ILE	B	89	0.952	88.807	55.133	1.00	18.14	B	C
ATOM	2703	CG1	ILE	B	89	0.658	89.408	57.543	1.00	21.01	B	C
ATOM	2704	CD1	ILE	B	89	1.125	88.043	58.007	1.00	18.58	B	C
ATOM	2705	C	ILE	B	89	-1.202	90.823	54.466	1.00	17.23	B	C
ATOM	2706	O	ILE	B	89	-2.323	90.305	54.425	1.00	17.75	B	O
ATOM	2707	N	VAL	B	90	-0.642	91.403	53.414	1.00	16.10	B	N
ATOM	2708	CA	VAL	B	90	-1.334	91.467	52.141	1.00	15.66	B	C
ATOM	2709	CB	VAL	B	90	-1.436	92.934	51.651	1.00	17.82	B	C
ATOM	2710	CG1	VAL	B	90	-2.241	93.001	50.351	1.00	17.58	B	C
ATOM	2711	CG2	VAL	B	90	-2.074	93.805	52.739	1.00	18.13	B	C
ATOM	2712	C	VAL	B	90	-0.612	90.640	51.088	1.00	13.43	B	C
ATOM	2713	O	VAL	B	90	0.567	90.869	50.812	1.00	14.69	B	O
ATOM	2714	N	GLY	B	91	-1.332	89.681	50.511	1.00	13.52	B	N
ATOM	2715	CA	GLY	B	91	-0.773	88.827	49.474	1.00	12.39	B	C
ATOM	2716	C	GLY	B	91	-1.085	89.387	48.093	1.00	14.87	B	C
ATOM	2717	O	GLY	B	91	-1.754	90.414	47.982	1.00	13.52	B	O
ATOM	2718	N	VAL	B	92	-0.618	88.715	47.041	1.00	13.75	B	N
ATOM	2719	CA	VAL	B	92	-0.840	89.190	45.676	1.00	14.98	B	C
ATOM	2720	CB	VAL	B	92	0.447	89.066	44.819	1.00	14.03	B	C
ATOM	2721	CG1	VAL	B	92	1.442	90.130	45.234	1.00	9.89	B	C
ATOM	2722	CG2	VAL	B	92	1.056	87.672	44.978	1.00	12.60	B	C
ATOM	2723	C	VAL	B	92	-1.975	88.505	44.922	1.00	16.65	B	C
ATOM	2724	O	VAL	B	92	-2.194	88.786	43.746	1.00	17.87	B	O
ATOM	2725	N	ILE	B	93	-2.702	87.616	45.585	1.00	16.90	B	N
ATOM	2726	CA	ILE	B	93	-3.798	86.933	44.909	1.00	17.60	B	C
ATOM	2727	CB	ILE	B	93	-3.993	85.514	45.469	1.00	18.08	B	C
ATOM	2728	CG2	ILE	B	93	-5.148	84.825	44.757	1.00	15.25	B	C
ATOM	2729	CG1	ILE	B	93	-2.693	84.722	45.291	1.00	18.10	B	C
ATOM	2730	CD1	ILE	B	93	-2.803	83.256	45.609	1.00	20.71	B	C
ATOM	2731	C	ILE	B	93	-5.125	87.693	44.971	1.00	18.37	B	C
ATOM	2732	O	ILE	B	93	-5.720	87.983	43.930	1.00	19.27	B	O
ATOM	2733	N	GLU	B	94	-5.590	88.021	46.176	1.00	18.78	B	N
ATOM	2734	CA	GLU	B	94	-6.859	88.742	46.315	1.00	21.11	B	C
ATOM	2735	CB	GLU	B	94	-7.198	88.977	47.789	1.00	23.95	B	C
ATOM	2736	CG	GLU	B	94	-7.565	87.705	48.536	1.00	28.58	B	C

Figure 7WW

ATOM	2737	CD	GLU	B	94	-8.651	86.906	47.831	1.00	33.34	B	C
ATOM	2738	OE1	GLU	B	94	-9.700	87.494	47.484	1.00	32.87	B	O
ATOM	2739	OE2	GLU	B	94	-8.453	85.686	47.627	1.00	36.08	B	O
ATOM	2740	C	GLU	B	94	-6.873	90.073	45.568	1.00	20.94	B	C
ATOM	2741	O	GLU	B	94	-7.882	90.439	44.960	1.00	21.06	B	O
ATOM	2742	N	PRO	B	95	-5.760	90.823	45.615	1.00	19.29	B	N
ATOM	2743	CD	PRO	B	95	-4.581	90.667	46.487	1.00	17.34	B	C
ATOM	2744	CA	PRO	B	95	-5.714	92.108	44.909	1.00	19.84	B	C
ATOM	2745	CB	PRO	B	95	-4.301	92.603	45.196	1.00	18.81	B	C
ATOM	2746	CG	PRO	B	95	-4.058	92.087	46.580	1.00	19.00	B	C
ATOM	2747	C	PRO	B	95	-5.971	91.933	43.415	1.00	18.63	B	C
ATOM	2748	O	PRO	B	95	-6.588	92.786	42.771	1.00	19.30	B	O
ATOM	2749	N	SER	B	96	-5.485	90.824	42.867	1.00	20.23	B	N
ATOM	2750	CA	SER	B	96	-5.661	90.532	41.451	1.00	19.54	B	C
ATOM	2751	CB	SER	B	96	-4.752	89.380	41.032	1.00	20.19	B	C
ATOM	2752	OG	SER	B	96	-3.398	89.803	41.022	1.00	21.10	B	O
ATOM	2753	C	SER	B	96	-7.107	90.194	41.137	1.00	19.82	B	C
ATOM	2754	O	SER	B	96	-7.623	90.554	40.076	1.00	18.36	B	O
ATOM	2755	N	ILE	B	97	-7.761	89.496	42.060	1.00	19.40	B	N
ATOM	2756	CA	ILE	B	97	-9.159	89.129	41.869	1.00	21.46	B	C
ATOM	2757	CB	ILE	B	97	-9.702	88.310	43.066	1.00	20.75	B	C
ATOM	2758	CG2	ILE	B	97	-11.185	88.032	42.872	1.00	23.74	B	C
ATOM	2759	CG1	ILE	B	97	-8.929	86.996	43.205	1.00	20.33	B	C
ATOM	2760	CD1	ILE	B	97	-9.130	86.028	42.048	1.00	18.39	B	C
ATOM	2761	C	ILE	B	97	-9.985	90.408	41.741	1.00	20.42	B	C
ATOM	2762	O	ILE	B	97	-10.881	90.502	40.904	1.00	21.88	B	O
ATOM	2763	N	LEU	B	98	-9.670	91.393	42.575	1.00	22.89	B	N
ATOM	2764	CA	LEU	B	98	-10.378	92.668	42.561	1.00	22.94	B	C
ATOM	2765	CB	LEU	B	98	-9.918	93.539	43.734	1.00	24.42	B	C
ATOM	2766	CG	LEU	B	98	-10.197	92.998	45.143	1.00	24.87	B	C
ATOM	2767	CD1	LEU	B	98	-9.532	93.893	46.172	1.00	27.53	B	C
ATOM	2768	CD2	LEU	B	98	-11.701	92.922	45.389	1.00	25.92	B	C
ATOM	2769	C	LEU	B	98	-10.150	93.411	41.249	1.00	23.55	B	C
ATOM	2770	O	LEU	B	98	-11.067	94.032	40.708	1.00	24.17	B	O
ATOM	2771	N	ALA	B	99	-8.924	93.351	40.740	1.00	23.11	B	N
ATOM	2772	CA	ALA	B	99	-8.594	94.025	39.491	1.00	22.89	B	C
ATOM	2773	CB	ALA	B	99	-7.110	93.904	39.208	1.00	22.27	B	C
ATOM	2774	C	ALA	B	99	-9.390	93.395	38.362	1.00	21.70	B	C
ATOM	2775	O	ALA	B	99	-9.921	94.090	37.497	1.00	18.65	B	O
ATOM	2776	N	ILE	B	100	-9.457	92.068	38.377	1.00	19.64	B	N
ATOM	2777	CA	ILE	B	100	-10.190	91.331	37.363	1.00	19.82	B	C
ATOM	2778	CB	ILE	B	100	-10.044	89.803	37.568	1.00	21.33	B	C
ATOM	2779	CG2	ILE	B	100	-11.118	89.054	36.784	1.00	19.75	B	C
ATOM	2780	CG1	ILE	B	100	-8.644	89.357	37.134	1.00	20.47	B	C
ATOM	2781	CD1	ILE	B	100	-8.425	87.859	37.227	1.00	23.03	B	C
ATOM	2782	C	ILE	B	100	-11.664	91.717	37.413	1.00	20.18	B	C
ATOM	2783	O	ILE	B	100	-12.310	91.842	36.378	1.00	17.92	B	O
ATOM	2784	N	LYS	B	101	-12.192	91.910	38.617	1.00	21.96	B	N
ATOM	2785	CA	LYS	B	101	-13.594	92.296	38.755	1.00	24.71	B	C
ATOM	2786	CB	LYS	B	101	-13.980	92.434	40.229	1.00	25.47	B	C
ATOM	2787	CG	LYS	B	101	-14.034	91.120	40.988	1.00	30.47	B	C
ATOM	2788	CD	LYS	B	101	-14.348	91.358	42.460	1.00	36.47	B	C
ATOM	2789	CE	LYS	B	101	-15.720	91.992	42.654	1.00	39.30	B	C
ATOM	2790	NZ	LYS	B	101	-15.973	92.336	44.087	1.00	42.89	B	N
ATOM	2791	C	LYS	B	101	-13.831	93.623	38.041	1.00	24.26	B	C
ATOM	2792	O	LYS	B	101	-14.846	93.797	37.369	1.00	25.28	B	O
ATOM	2793	N	ARG	B	102	-12.886	94.548	38.185	1.00	23.53	B	N
ATOM	2794	CA	ARG	B	102	-12.986	95.865	37.559	1.00	24.45	B	C

Figure 7XX

ATOM	2795	CB	ARG B 102	-11.976	96.835	38.182	1.00	24.23	B	C
ATOM	2796	CG	ARG B 102	-12.234	97.217	39.625	1.00	25.40	B	C
ATOM	2797	CD	ARG B 102	-11.276	98.316	40.054	1.00	26.37	B	C
ATOM	2798	NE	ARG B 102	-9.888	97.863	40.086	1.00	27.81	B	N
ATOM	2799	CZ	ARG B 102	-9.328	97.229	41.114	1.00	27.91	B	C
ATOM	2800	NH1	ARG B 102	-10.035	96.972	42.206	1.00	27.77	B	N
ATOM	2801	NH2	ARG B 102	-8.058	96.857	41.051	1.00	22.49	B	N
ATOM	2802	C	ARG B 102	-12.747	95.846	36.051	1.00	23.56	B	C
ATOM	2803	O	ARG B 102	-13.394	96.576	35.306	1.00	21.65	B	O
ATOM	2804	N	GLN B 103	-11.816	95.010	35.605	1.00	22.46	B	N
ATOM	2805	CA	GLN B 103	-11.474	94.951	34.189	1.00	22.58	B	C
ATOM	2806	CB	GLN B 103	-9.972	94.728	34.036	1.00	21.32	B	C
ATOM	2807	CG	GLN B 103	-9.126	95.766	34.733	1.00	22.61	B	C
ATOM	2808	CD	GLN B 103	-7.659	95.405	34.712	1.00	22.94	B	C
ATOM	2809	OE1	GLN B 103	-7.074	95.216	33.647	1.00	24.42	B	O
ATOM	2810	NE2	GLN B 103	-7.055	95.305	35.890	1.00	22.74	B	N
ATOM	2811	C	GLN B 103	-12.206	93.918	33.349	1.00	22.98	B	C
ATOM	2812	O	GLN B 103	-12.221	94.020	32.126	1.00	23.73	B	O
ATOM	2813	N	VAL B 104	-12.807	92.925	33.989	1.00	22.89	B	N
ATOM	2814	CA	VAL B 104	-13.500	91.881	33.241	1.00	24.65	B	C
ATOM	2815	CB	VAL B 104	-12.796	90.518	33.427	1.00	25.96	B	C
ATOM	2816	CG1	VAL B 104	-13.465	89.462	32.568	1.00	25.99	B	C
ATOM	2817	CG2	VAL B 104	-11.321	90.643	33.066	1.00	24.05	B	C
ATOM	2818	C	VAL B 104	-14.957	91.752	33.663	1.00	26.14	B	C
ATOM	2819	O	VAL B 104	-15.284	90.975	34.557	1.00	23.04	B	O
ATOM	2820	N	GLU B 105	-15.821	92.515	33.000	1.00	28.13	B	N
ATOM	2821	CA	GLU B 105	-17.253	92.520	33.289	1.00	31.78	B	C
ATOM	2822	CB	GLU B 105	-17.923	93.703	32.581	1.00	37.19	B	C
ATOM	2823	CG	GLU B 105	-17.318	95.053	32.940	1.00	47.02	B	C
ATOM	2824	CD	GLU B 105	-17.983	96.226	32.231	1.00	50.74	B	C
ATOM	2825	OE1	GLU B 105	-18.016	96.247	30.979	1.00	51.99	B	O
ATOM	2826	OE2	GLU B 105	-18.469	97.136	32.933	1.00	54.70	B	O
ATOM	2827	C	GLU B 105	-17.953	91.231	32.877	1.00	29.48	B	C
ATOM	2828	O	GLU B 105	-18.915	90.807	33.518	1.00	32.30	B	O
ATOM	2829	N	ASP B 106	-17.471	90.608	31.808	1.00	27.12	B	N
ATOM	2830	CA	ASP B 106	-18.067	89.377	31.310	1.00	26.01	B	C
ATOM	2831	CB	ASP B 106	-17.666	89.167	29.850	1.00	26.98	B	C
ATOM	2832	CG	ASP B 106	-18.215	87.881	29.272	1.00	28.23	B	C
ATOM	2833	OD1	ASP B 106	-19.054	87.232	29.930	1.00	28.83	B	O
ATOM	2834	OD2	ASP B 106	-17.807	87.521	28.147	1.00	31.85	B	O
ATOM	2835	C	ASP B 106	-17.666	88.168	32.147	1.00	25.85	B	C
ATOM	2836	O	ASP B 106	-16.517	87.736	32.118	1.00	24.84	B	O
ATOM	2837	N	LYS B 107	-18.628	87.626	32.890	1.00	25.49	B	N
ATOM	2838	CA	LYS B 107	-18.396	86.472	33.754	1.00	27.31	B	C
ATOM	2839	CB	LYS B 107	-19.633	86.210	34.622	1.00	29.26	B	C
ATOM	2840	CG	LYS B 107	-19.948	87.328	35.600	1.00	32.01	B	C
ATOM	2841	CD	LYS B 107	-18.757	87.611	36.512	1.00	33.91	B	C
ATOM	2842	CE	LYS B 107	-19.056	88.718	37.516	1.00	34.29	B	C
ATOM	2843	NZ	LYS B 107	-19.369	90.016	36.853	1.00	41.19	B	N
ATOM	2844	C	LYS B 107	-18.044	85.203	32.991	1.00	26.67	B	C
ATOM	2845	O	LYS B 107	-17.508	84.254	33.565	1.00	28.78	B	O
ATOM	2846	N	ASN B 108	-18.337	85.187	31.698	1.00	26.36	B	N
ATOM	2847	CA	ASN B 108	-18.059	84.019	30.875	1.00	27.30	B	C
ATOM	2848	CB	ASN B 108	-19.176	83.833	29.848	1.00	32.21	B	C
ATOM	2849	CG	ASN B 108	-20.509	83.515	30.496	1.00	37.21	B	C
ATOM	2850	OD1	ASN B 108	-20.670	82.470	31.130	1.00	41.66	B	O
ATOM	2851	ND2	ASN B 108	-21.473	84.420	30.350	1.00	39.88	B	N
ATOM	2852	C	ASN B 108	-16.719	84.106	30.160	1.00	25.00	B	C

Figure 7YY

ATOM	2853	O	ASN B 108	-16.318	83.173	29.467	1.00	27.12	B	O
ATOM	2854	N	ALA B 109	-16.029	85.227	30.333	1.00	22.44	B	N
ATOM	2855	CA	ALA B 109	-14.734	85.427	29.696	1.00	22.32	B	C
ATOM	2856	CB	ALA B 109	-14.179	86.795	30.062	1.00	19.60	B	C
ATOM	2857	C	ALA B 109	-13.768	84.334	30.133	1.00	21.09	B	C
ATOM	2858	O	ALA B 109	-13.580	84.107	31.326	1.00	21.33	B	O
ATOM	2859	N	PRO B 110	-13.152	83.635	29.168	1.00	21.10	B	N
ATOM	2860	CD	PRO B 110	-13.315	83.775	27.711	1.00	21.88	B	C
ATOM	2861	CA	PRO B 110	-12.201	82.562	29.485	1.00	21.55	B	C
ATOM	2862	CB	PRO B 110	-11.843	81.988	28.111	1.00	20.46	B	C
ATOM	2863	CG	PRO B 110	-13.002	82.387	27.233	1.00	23.31	B	C
ATOM	2864	C	PRO B 110	-10.974	83.142	30.190	1.00	21.39	B	C
ATOM	2865	O	PRO B 110	-10.243	83.950	29.615	1.00	20.23	B	O
ATOM	2866	N	ILE B 111	-10.757	82.731	31.433	1.00	20.74	B	N
ATOM	2867	CA	ILE B 111	-9.621	83.220	32.208	1.00	21.29	B	C
ATOM	2868	CB	ILE B 111	-10.085	83.770	33.575	1.00	18.70	B	C
ATOM	2869	CG2	ILE B 111	-8.883	84.214	34.398	1.00	19.35	B	C
ATOM	2870	CG1	ILE B 111	-11.054	84.937	33.365	1.00	17.87	B	C
ATOM	2871	CD1	ILE B 111	-11.768	85.374	34.632	1.00	13.74	B	C
ATOM	2872	C	ILE B 111	-8.618	82.096	32.439	1.00	20.50	B	C
ATOM	2873	O	ILE B 111	-8.983	81.017	32.900	1.00	21.37	B	O
ATOM	2874	N	LEU B 112	-7.358	82.354	32.107	1.00	19.57	B	N
ATOM	2875	CA	LEU B 112	-6.302	81.367	32.285	1.00	18.55	B	C
ATOM	2876	CB	LEU B 112	-5.538	81.154	30.975	1.00	17.95	B	C
ATOM	2877	CG	LEU B 112	-4.340	80.200	31.024	1.00	18.08	B	C
ATOM	2878	CD1	LEU B 112	-4.774	78.812	31.482	1.00	19.26	B	C
ATOM	2879	CD2	LEU B 112	-3.713	80.132	29.640	1.00	16.52	B	C
ATOM	2880	C	LEU B 112	-5.329	81.799	33.370	1.00	18.08	B	C
ATOM	2881	O	LEU B 112	-4.731	82.873	33.291	1.00	19.20	B	O
ATOM	2882	N	VAL B 113	-5.171	80.951	34.380	1.00	16.92	B	N
ATOM	2883	CA	VAL B 113	-4.269	81.231	35.487	1.00	16.68	B	C
ATOM	2884	CB	VAL B 113	-4.863	80.728	36.835	1.00	17.69	B	C
ATOM	2885	CG1	VAL B 113	-3.945	81.110	37.994	1.00	17.55	B	C
ATOM	2886	CG2	VAL B 113	-6.244	81.309	37.050	1.00	17.01	B	C
ATOM	2887	C	VAL B 113	-2.943	80.516	35.243	1.00	16.02	B	C
ATOM	2888	O	VAL B 113	-2.921	79.308	34.999	1.00	14.64	B	O
ATOM	2889	N	LEU B 114	-1.845	81.267	35.291	1.00	14.63	B	N
ATOM	2890	CA	LEU B 114	-0.520	80.692	35.104	1.00	13.92	B	C
ATOM	2891	CB	LEU B 114	0.247	81.395	33.979	1.00	11.65	B	C
ATOM	2892	CG	LEU B 114	-0.330	81.466	32.566	1.00	17.67	B	C
ATOM	2893	CD1	LEU B 114	0.736	82.064	31.644	1.00	16.72	B	C
ATOM	2894	CD2	LEU B 114	-0.738	80.081	32.077	1.00	17.71	B	C
ATOM	2895	C	LEU B 114	0.256	80.881	36.399	1.00	14.25	B	C
ATOM	2896	O	LEU B 114	0.210	81.947	37.005	1.00	11.47	B	O
ATOM	2897	N	GLY B 115	0.984	79.855	36.813	1.00	14.70	B	N
ATOM	2898	CA	GLY B 115	1.757	79.971	38.037	1.00	15.73	B	C
ATOM	2899	C	GLY B 115	2.608	78.746	38.289	1.00	14.74	B	C
ATOM	2900	O	GLY B 115	2.693	77.855	37.451	1.00	13.78	B	O
ATOM	2901	N	THR B 116	3.252	78.706	39.447	1.00	16.02	B	N
ATOM	2902	CA	THR B 116	4.087	77.568	39.798	1.00	15.11	B	C
ATOM	2903	CB	THR B 116	4.916	77.860	41.045	1.00	14.07	B	C
ATOM	2904	OG1	THR B 116	4.040	78.104	42.155	1.00	12.96	B	O
ATOM	2905	CG2	THR B 116	5.800	79.074	40.814	1.00	13.81	B	C
ATOM	2906	C	THR B 116	3.182	76.375	40.083	1.00	15.15	B	C
ATOM	2907	O	THR B 116	1.974	76.528	40.260	1.00	15.43	B	O
ATOM	2908	N	LYS B 117	3.768	75.189	40.124	1.00	14.92	B	N
ATOM	2909	CA	LYS B 117	2.998	73.991	40.401	1.00	16.68	B	C
ATOM	2910	CB	LYS B 117	3.926	72.776	40.462	1.00	18.20	B	C

Figure 7ZZ

ATOM	2911	CG	LYS B 117	3.170	71.459	40.516	1.00	28.15	B	C
ATOM	2912	CD	LYS B 117	2.286	71.334	39.280	1.00	34.68	B	C
ATOM	2913	CE	LYS B 117	1.422	70.089	39.310	1.00	37.95	B	C
ATOM	2914	NZ	LYS B 117	0.628	69.995	38.057	1.00	40.68	B	N
ATOM	2915	C	LYS B 117	2.231	74.125	41.725	1.00	15.54	B	C
ATOM	2916	O	LYS B 117	1.055	73.772	41.811	1.00	13.25	B	O
ATOM	2917	N	ALA B 118	2.896	74.648	42.753	1.00	13.55	B	N
ATOM	2918	CA	ALA B 118	2.263	74.797	44.062	1.00	13.07	B	C
ATOM	2919	CB	ALA B 118	3.294	75.271	45.092	1.00	13.77	B	C
ATOM	2920	C	ALA B 118	1.084	75.755	44.020	1.00	13.96	B	C
ATOM	2921	O	ALA B 118	0.022	75.478	44.584	1.00	12.32	B	O
ATOM	2922	N	THR B 119	1.270	76.887	43.347	1.00	12.40	B	N
ATOM	2923	CA	THR B 119	0.204	77.874	43.248	1.00	14.50	B	C
ATOM	2924	CB	THR B 119	0.698	79.159	42.534	1.00	11.89	B	C
ATOM	2925	OG1	THR B 119	1.739	79.763	43.311	1.00	13.56	B	O
ATOM	2926	CG2	THR B 119	-0.443	80.158	42.373	1.00	12.19	B	C
ATOM	2927	C	THR B 119	-1.005	77.312	42.504	1.00	12.61	B	C
ATOM	2928	O	THR B 119	-2.140	77.473	42.942	1.00	15.20	B	O
ATOM	2929	N	ILE B 120	-0.759	76.641	41.385	1.00	13.07	B	N
ATOM	2930	CA	ILE B 120	-1.847	76.080	40.594	1.00	17.11	B	C
ATOM	2931	CB	ILE B 120	-1.333	75.521	39.242	1.00	15.75	B	C
ATOM	2932	CG2	ILE B 120	-2.499	74.993	38.418	1.00	19.67	B	C
ATOM	2933	CG1	ILE B 120	-0.600	76.620	38.461	1.00	15.38	B	C
ATOM	2934	CD1	ILE B 120	-1.456	77.829	38.120	1.00	19.05	B	C
ATOM	2935	C	ILE B 120	-2.605	74.971	41.331	1.00	17.21	B	C
ATOM	2936	O	ILE B 120	-3.832	74.938	41.309	1.00	18.55	B	O
ATOM	2937	N	GLN B 121	-1.887	74.064	41.984	1.00	17.85	B	N
ATOM	2938	CA	GLN B 121	-2.554	72.983	42.700	1.00	21.02	B	C
ATOM	2939	CB	GLN B 121	-1.539	71.946	43.177	1.00	23.26	B	C
ATOM	2940	CG	GLN B 121	-0.796	71.267	42.053	1.00	31.27	B	C
ATOM	2941	CD	GLN B 121	-0.046	70.038	42.509	1.00	34.42	B	C
ATOM	2942	OE1	GLN B 121	0.702	70.078	43.488	1.00	38.77	B	O
ATOM	2943	NE2	GLN B 121	-0.237	68.933	41.797	1.00	36.80	B	N
ATOM	2944	C	GLN B 121	-3.375	73.477	43.894	1.00	21.84	B	C
ATOM	2945	O	GLN B 121	-4.297	72.795	44.345	1.00	23.51	B	O
ATOM	2946	N	SER B 122	-3.056	74.661	44.404	1.00	20.44	B	N
ATOM	2947	CA	SER B 122	-3.791	75.193	45.549	1.00	20.89	B	C
ATOM	2948	CB	SER B 122	-3.024	76.348	46.208	1.00	20.03	B	C
ATOM	2949	OG	SER B 122	-3.115	77.537	45.438	1.00	19.77	B	O
ATOM	2950	C	SER B 122	-5.178	75.687	45.152	1.00	19.13	B	C
ATOM	2951	O	SER B 122	-6.057	75.812	46.000	1.00	18.67	B	O
ATOM	2952	N	ASN B 123	-5.362	75.960	43.864	1.00	20.34	B	N
ATOM	2953	CA	ASN B 123	-6.626	76.476	43.345	1.00	21.65	B	C
ATOM	2954	CB	ASN B 123	-7.756	75.464	43.543	1.00	24.19	B	C
ATOM	2955	CG	ASN B 123	-7.662	74.302	42.583	1.00	28.22	B	C
ATOM	2956	OD1	ASN B 123	-7.618	74.492	41.368	1.00	28.03	B	O
ATOM	2957	ND2	ASN B 123	-7.632	73.087	43.121	1.00	31.95	B	N
ATOM	2958	C	ASN B 123	-6.990	77.787	44.025	1.00	20.93	B	C
ATOM	2959	O	ASN B 123	-8.162	78.160	44.098	1.00	20.81	B	O
ATOM	2960	N	ALA B 124	-5.977	78.488	44.520	1.00	18.37	B	N
ATOM	2961	CA	ALA B 124	-6.205	79.759	45.187	1.00	19.77	B	C
ATOM	2962	CB	ALA B 124	-4.872	80.387	45.588	1.00	18.94	B	C
ATOM	2963	C	ALA B 124	-6.993	80.715	44.285	1.00	18.40	B	C
ATOM	2964	O	ALA B 124	-8.032	81.239	44.685	1.00	20.72	B	O
ATOM	2965	N	TYR B 125	-6.506	80.936	43.069	1.00	19.24	B	N
ATOM	2966	CA	TYR B 125	-7.184	81.841	42.142	1.00	19.32	B	C
ATOM	2967	CB	TYR B 125	-6.331	82.091	40.892	1.00	19.37	B	C
ATOM	2968	CG	TYR B 125	-5.129	82.989	41.102	1.00	19.31	B	C

Figure 7AAA

ATOM	2969	CD1 TYR B 125	-3.887	82.457	41.439	1.00	17.61	B	C
ATOM	2970	CE1 TYR B 125	-2.768	83.280	41.591	1.00	18.62	B	C
ATOM	2971	CD2 TYR B 125	-5.228	84.371	40.929	1.00	17.15	B	C
ATOM	2972	CE2 TYR B 125	-4.123	85.197	41.078	1.00	16.64	B	C
ATOM	2973	CZ TYR B 125	-2.895	84.646	41.405	1.00	17.43	B	C
ATOM	2974	OH TYR B 125	-1.792	85.454	41.520	1.00	17.10	B	O
ATOM	2975	C TYR B 125	-8.553	81.340	41.696	1.00	19.25	B	C
ATOM	2976	O TYR B 125	-9.528	82.096	41.688	1.00	18.74	B	O
ATOM	2977	N ASP B 126	-8.617	80.071	41.310	1.00	18.47	B	N
ATOM	2978	CA ASP B 126	-9.862	79.473	40.841	1.00	19.68	B	C
ATOM	2979	CB ASP B 126	-9.660	77.986	40.552	1.00	19.72	B	C
ATOM	2980	CG ASP B 126	-8.455	77.720	39.671	1.00	23.51	B	C
ATOM	2981	OD1 ASP B 126	-7.341	78.138	40.042	1.00	24.96	B	O
ATOM	2982	OD2 ASP B 126	-8.621	77.085	38.609	1.00	22.93	B	O
ATOM	2983	C ASP B 126	-10.972	79.635	41.868	1.00	21.84	B	C
ATOM	2984	O ASP B 126	-12.076	80.077	41.541	1.00	18.17	B	O
ATOM	2985	N ASN B 127	-10.676	79.273	43.113	1.00	21.58	B	N
ATOM	2986	CA ASN B 127	-11.659	79.376	44.181	1.00	22.68	B	C
ATOM	2987	CB ASN B 127	-11.081	78.839	45.495	1.00	22.98	B	C
ATOM	2988	CG ASN B 127	-10.656	77.385	45.393	1.00	26.68	B	C
ATOM	2989	OD1 ASN B 127	-11.290	76.591	44.701	1.00	26.92	B	O
ATOM	2990	ND2 ASN B 127	-9.582	77.029	46.092	1.00	29.75	B	N
ATOM	2991	C ASN B 127	-12.105	80.821	44.362	1.00	22.20	B	C
ATOM	2992	O ASN B 127	-13.300	81.104	44.443	1.00	22.96	B	O
ATOM	2993	N ALA B 128	-11.145	81.736	44.422	1.00	21.77	B	N
ATOM	2994	CA ALA B 128	-11.465	83.149	44.587	1.00	22.81	B	C
ATOM	2995	CB ALA B 128	-10.184	83.970	44.693	1.00	24.04	B	C
ATOM	2996	C ALA B 128	-12.315	83.643	43.422	1.00	24.10	B	C
ATOM	2997	O ALA B 128	-13.302	84.354	43.624	1.00	27.04	B	O
ATOM	2998	N LEU B 129	-11.935	83.262	42.205	1.00	24.54	B	N
ATOM	2999	CA LEU B 129	-12.672	83.664	41.012	1.00	24.58	B	C
ATOM	3000	CB LEU B 129	-11.926	83.225	39.753	1.00	22.03	B	C
ATOM	3001	CG LEU B 129	-10.633	83.975	39.418	1.00	24.03	B	C
ATOM	3002	CD1 LEU B 129	-9.865	83.210	38.366	1.00	22.36	B	C
ATOM	3003	CD2 LEU B 129	-10.956	85.382	38.932	1.00	22.58	B	C
ATOM	3004	C LEU B 129	-14.078	83.070	41.005	1.00	26.08	B	C
ATOM	3005	O LEU B 129	-15.046	83.751	40.669	1.00	26.16	B	O
ATOM	3006	N LYS B 130	-14.185	81.795	41.365	1.00	26.80	B	N
ATOM	3007	CA LYS B 130	-15.482	81.130	41.404	1.00	29.37	B	C
ATOM	3008	CB LYS B 130	-15.326	79.694	41.904	1.00	32.59	B	C
ATOM	3009	CG LYS B 130	-16.638	78.939	42.019	1.00	37.42	B	C
ATOM	3010	CD LYS B 130	-17.337	78.877	40.675	1.00	43.42	B	C
ATOM	3011	CE LYS B 130	-18.708	78.237	40.775	1.00	45.02	B	C
ATOM	3012	NZ LYS B 130	-19.379	78.220	39.444	1.00	49.29	B	N
ATOM	3013	C LYS B 130	-16.400	81.897	42.347	1.00	29.56	B	C
ATOM	3014	O LYS B 130	-17.538	82.218	42.010	1.00	28.29	B	O
ATOM	3015	N GLN B 131	-15.876	82.185	43.532	1.00	29.31	B	N
ATOM	3016	CA GLN B 131	-16.599	82.911	44.559	1.00	31.88	B	C
ATOM	3017	CB GLN B 131	-15.667	83.162	45.747	1.00	35.97	B	C
ATOM	3018	CG GLN B 131	-16.286	83.913	46.918	1.00	45.23	B	C
ATOM	3019	CD GLN B 131	-17.385	83.128	47.610	1.00	50.61	B	C
ATOM	3020	OE1 GLN B 131	-17.211	81.951	47.942	1.00	53.57	B	O
ATOM	3021	NE2 GLN B 131	-18.524	83.781	47.843	1.00	52.00	B	N
ATOM	3022	C GLN B 131	-17.137	84.239	44.035	1.00	31.40	B	C
ATOM	3023	O GLN B 131	-18.222	84.675	44.427	1.00	29.81	B	O
ATOM	3024	N GLN B 132	-16.382	84.878	43.145	1.00	29.49	B	N
ATOM	3025	CA GLN B 132	-16.788	86.166	42.597	1.00	29.13	B	C
ATOM	3026	CB GLN B 132	-15.558	87.020	42.290	1.00	30.78	B	C

Figure 7BBB

ATOM	3027	CG	GLN B 132	-14.776	87.410	43.535	1.00	32.44	B	C
ATOM	3028	CD	GLN B 132	-15.644	88.114	44.565	1.00	35.76	B	C
ATOM	3029	OE1	GLN B 132	-16.234	89.158	44.286	1.00	35.79	B	O
ATOM	3030	NE2	GLN B 132	-15.725	87.542	45.763	1.00	34.46	B	N
ATOM	3031	C	GLN B 132	-17.682	86.079	41.368	1.00	29.17	B	C
ATOM	3032	O	GLN B 132	-17.994	87.096	40.747	1.00	28.85	B	O
ATOM	3033	N	GLY B 133	-18.075	84.864	41.004	1.00	28.71	B	N
ATOM	3034	CA	GLY B 133	-18.974	84.700	39.879	1.00	28.15	B	C
ATOM	3035	C	GLY B 133	-18.442	84.343	38.509	1.00	27.61	B	C
ATOM	3036	O	GLY B 133	-19.224	84.310	37.561	1.00	26.00	B	O
ATOM	3037	N	TYR B 134	-17.146	84.078	38.371	1.00	26.83	B	N
ATOM	3038	CA	TYR B 134	-16.627	83.721	37.056	1.00	26.16	B	C
ATOM	3039	CB	TYR B 134	-15.135	84.049	36.961	1.00	24.55	B	C
ATOM	3040	CG	TYR B 134	-14.921	85.545	36.938	1.00	22.77	B	C
ATOM	3041	CD1	TYR B 134	-14.840	86.277	38.123	1.00	22.62	B	C
ATOM	3042	CE1	TYR B 134	-14.760	87.670	38.109	1.00	23.49	B	C
ATOM	3043	CD2	TYR B 134	-14.911	86.246	35.730	1.00	24.51	B	C
ATOM	3044	CE2	TYR B 134	-14.834	87.641	35.702	1.00	25.08	B	C
ATOM	3045	CZ	TYR B 134	-14.759	88.346	36.896	1.00	23.66	B	C
ATOM	3046	OH	TYR B 134	-14.689	89.721	36.886	1.00	24.39	B	O
ATOM	3047	C	TYR B 134	-16.927	82.264	36.729	1.00	26.95	B	C
ATOM	3048	O	TYR B 134	-16.774	81.379	37.571	1.00	26.50	B	O
ATOM	3049	N	LEU B 135	-17.362	82.031	35.494	1.00	25.91	B	N
ATOM	3050	CA	LEU B 135	-17.777	80.704	35.049	1.00	28.31	B	C
ATOM	3051	CB	LEU B 135	-19.155	80.822	34.388	1.00	28.49	B	C
ATOM	3052	CG	LEU B 135	-20.131	81.733	35.139	1.00	28.21	B	C
ATOM	3053	CD1	LEU B 135	-21.343	82.031	34.272	1.00	28.13	B	C
ATOM	3054	CD2	LEU B 135	-20.527	81.077	36.455	1.00	29.07	B	C
ATOM	3055	C	LEU B 135	-16.847	79.940	34.113	1.00	27.36	B	C
ATOM	3056	O	LEU B 135	-17.066	78.758	33.855	1.00	27.87	B	O
ATOM	3057	N	ASN B 136	-15.819	80.602	33.596	1.00	28.12	B	N
ATOM	3058	CA	ASN B 136	-14.892	79.944	32.681	1.00	25.99	B	C
ATOM	3059	CB	ASN B 136	-15.053	80.520	31.276	1.00	27.18	B	C
ATOM	3060	CG	ASN B 136	-14.416	79.652	30.214	1.00	27.92	B	C
ATOM	3061	OD1	ASN B 136	-13.572	78.807	30.509	1.00	28.48	B	O
ATOM	3062	ND2	ASN B 136	-14.809	79.866	28.962	1.00	30.11	B	N
ATOM	3063	C	ASN B 136	-13.460	80.159	33.172	1.00	26.03	B	C
ATOM	3064	O	ASN B 136	-12.749	81.040	32.688	1.00	24.61	B	O
ATOM	3065	N	ILE B 137	-13.046	79.342	34.133	1.00	24.40	B	N
ATOM	3066	CA	ILE B 137	-11.715	79.451	34.716	1.00	24.19	B	C
ATOM	3067	CB	ILE B 137	-11.816	79.575	36.254	1.00	25.00	B	C
ATOM	3068	CG2	ILE B 137	-10.430	79.802	36.857	1.00	26.36	B	C
ATOM	3069	CG1	ILE B 137	-12.752	80.735	36.616	1.00	25.12	B	C
ATOM	3070	CD1	ILE B 137	-13.231	80.738	38.056	1.00	25.56	B	C
ATOM	3071	C	ILE B 137	-10.809	78.268	34.378	1.00	24.30	B	C
ATOM	3072	O	ILE B 137	-11.180	77.114	34.574	1.00	24.24	B	O
ATOM	3073	N	SER B 138	-9.620	78.570	33.865	1.00	22.99	B	N
ATOM	3074	CA	SER B 138	-8.640	77.545	33.520	1.00	23.07	B	C
ATOM	3075	CB	SER B 138	-8.357	77.547	32.016	1.00	21.90	B	C
ATOM	3076	OG	SER B 138	-9.532	77.297	31.271	1.00	28.80	B	O
ATOM	3077	C	SER B 138	-7.345	77.845	34.267	1.00	21.12	B	C
ATOM	3078	O	SER B 138	-7.104	78.986	34.675	1.00	18.88	B	O
ATOM	3079	N	HIS B 139	-6.521	76.820	34.463	1.00	20.44	B	N
ATOM	3080	CA	HIS B 139	-5.242	77.010	35.134	1.00	20.66	B	C
ATOM	3081	CB	HIS B 139	-5.343	76.712	36.639	1.00	20.23	B	C
ATOM	3082	CG	HIS B 139	-5.802	75.322	36.964	1.00	21.50	B	C
ATOM	3083	CD2	HIS B 139	-5.241	74.114	36.716	1.00	22.63	B	C
ATOM	3084	ND1	HIS B 139	-6.984	75.067	37.626	1.00	20.86	B	N

Figure 7CCC

ATOM	3085	CE1 HIS B 139	-7.132	73.761	37.770	1.00	23.65	B	C
ATOM	3086	NE2 HIS B 139	-6.089	73.161	37.226	1.00	23.23	B	N
ATOM	3087	C HIS B 139	-4.172	76.148	34.488	1.00	21.34	B	C
ATOM	3088	O HIS B 139	-4.468	75.120	33.874	1.00	21.81	B	O
ATOM	3089	N LEU B 140	-2.922	76.578	34.614	1.00	21.36	B	N
ATOM	3090	CA LEU B 140	-1.815	75.846	34.023	1.00	20.20	B	C
ATOM	3091	CB LEU B 140	-1.644	76.244	32.558	1.00	21.19	B	C
ATOM	3092	CG LEU B 140	-0.502	75.564	31.800	1.00	21.50	B	C
ATOM	3093	CD1 LEU B 140	-0.790	74.074	31.688	1.00	21.95	B	C
ATOM	3094	CD2 LEU B 140	-0.357	76.190	30.410	1.00	21.96	B	C
ATOM	3095	C LEU B 140	-0.511	76.104	34.758	1.00	19.11	B	C
ATOM	3096	O LEU B 140	-0.098	77.248	34.928	1.00	16.59	B	O
ATOM	3097	N ALA B 141	0.135	75.027	35.186	1.00	19.36	B	N
ATOM	3098	CA ALA B 141	1.405	75.133	35.887	1.00	19.87	B	C
ATOM	3099	CB ALA B 141	1.603	73.918	36.791	1.00	21.48	B	C
ATOM	3100	C ALA B 141	2.531	75.215	34.856	1.00	16.62	B	C
ATOM	3101	O ALA B 141	2.912	74.214	34.261	1.00	20.61	B	O
ATOM	3102	N THR B 142	3.049	76.415	34.630	1.00	15.84	B	N
ATOM	3103	CA THR B 142	4.132	76.600	33.676	1.00	14.20	B	C
ATOM	3104	CB THR B 142	3.948	77.913	32.889	1.00	13.97	B	C
ATOM	3105	OG1 THR B 142	3.814	79.003	33.806	1.00	14.25	B	O
ATOM	3106	CG2 THR B 142	2.691	77.840	32.023	1.00	13.62	B	C
ATOM	3107	C THR B 142	5.410	76.652	34.505	1.00	14.37	B	C
ATOM	3108	O THR B 142	6.114	77.653	34.529	1.00	13.97	B	O
ATOM	3109	N SER B 143	5.698	75.544	35.176	1.00	15.59	B	N
ATOM	3110	CA SER B 143	6.844	75.444	36.067	1.00	16.89	B	C
ATOM	3111	CB SER B 143	6.971	74.013	36.591	1.00	19.31	B	C
ATOM	3112	OG SER B 143	8.003	73.931	37.564	1.00	27.09	B	O
ATOM	3113	C SER B 143	8.193	75.902	35.537	1.00	16.21	B	C
ATOM	3114	O SER B 143	8.892	76.666	36.205	1.00	16.07	B	O
ATOM	3115	N LEU B 144	8.557	75.446	34.345	1.00	15.08	B	N
ATOM	3116	CA LEU B 144	9.850	75.783	33.759	1.00	15.48	B	C
ATOM	3117	CB LEU B 144	10.094	74.929	32.520	1.00	15.32	B	C
ATOM	3118	CG LEU B 144	10.215	73.436	32.827	1.00	16.70	B	C
ATOM	3119	CD1 LEU B 144	10.267	72.642	31.536	1.00	19.80	B	C
ATOM	3120	CD2 LEU B 144	11.468	73.190	33.654	1.00	19.07	B	C
ATOM	3121	C LEU B 144	10.037	77.251	33.421	1.00	14.68	B	C
ATOM	3122	O LEU B 144	11.145	77.678	33.098	1.00	14.35	B	O
ATOM	3123	N PHE B 145	8.962	78.028	33.484	1.00	14.12	B	N
ATOM	3124	CA PHE B 145	9.088	79.447	33.199	1.00	15.35	B	C
ATOM	3125	CB PHE B 145	7.719	80.148	33.232	1.00	13.56	B	C
ATOM	3126	CG PHE B 145	6.911	79.992	31.964	1.00	14.58	B	C
ATOM	3127	CD1 PHE B 145	5.657	80.594	31.852	1.00	13.83	B	C
ATOM	3128	CD2 PHE B 145	7.393	79.252	30.888	1.00	16.08	B	C
ATOM	3129	CE1 PHE B 145	4.899	80.461	30.688	1.00	14.15	B	C
ATOM	3130	CE2 PHE B 145	6.646	79.111	29.720	1.00	15.95	B	C
ATOM	3131	CZ PHE B 145	5.395	79.717	29.620	1.00	14.39	B	C
ATOM	3132	C PHE B 145	10.011	80.084	34.233	1.00	14.15	B	C
ATOM	3133	O PHE B 145	10.821	80.942	33.896	1.00	13.84	B	O
ATOM	3134	N VAL B 146	9.901	79.648	35.488	1.00	14.43	B	N
ATOM	3135	CA VAL B 146	10.721	80.215	36.558	1.00	15.36	B	C
ATOM	3136	CB VAL B 146	10.353	79.617	37.949	1.00	17.29	B	C
ATOM	3137	CG1 VAL B 146	11.367	80.065	38.995	1.00	16.50	B	C
ATOM	3138	CG2 VAL B 146	8.959	80.079	38.369	1.00	14.60	B	C
ATOM	3139	C VAL B 146	12.229	80.086	36.329	1.00	14.39	B	C
ATOM	3140	O VAL B 146	12.935	81.092	36.326	1.00	14.20	B	O
ATOM	3141	N PRO B 147	12.747	78.856	36.144	1.00	14.14	B	N
ATOM	3142	CD PRO B 147	12.141	77.519	36.269	1.00	13.43	B	C

Figure 7DDD

ATOM	3143	CA	PRO B 147	14.195	78.754	35.921	1.00	14.59	B	C
ATOM	3144	CB	PRO B 147	14.457	77.242	35.995	1.00	13.53	B	C
ATOM	3145	CG	PRO B 147	13.151	76.642	35.573	1.00	14.07	B	C
ATOM	3146	C	PRO B 147	14.653	79.377	34.597	1.00	13.40	B	C
ATOM	3147	O	PRO B 147	15.775	79.877	34.500	1.00	13.19	B	O
ATOM	3148	N	LEU B 148	13.796	79.355	33.577	1.00	11.38	B	N
ATOM	3149	CA	LEU B 148	14.179	79.960	32.303	1.00	12.63	B	C
ATOM	3150	CB	LEU B 148	13.100	79.751	31.232	1.00	14.70	B	C
ATOM	3151	CG	LEU B 148	13.404	78.655	30.202	1.00	12.09	B	C
ATOM	3152	CD1	LEU B 148	13.446	77.315	30.903	1.00	14.46	B	C
ATOM	3153	CD2	LEU B 148	12.341	78.649	29.106	1.00	18.20	B	C
ATOM	3154	C	LEU B 148	14.395	81.448	32.508	1.00	12.91	B	C
ATOM	3155	O	LEU B 148	15.372	82.018	32.031	1.00	12.96	B	O
ATOM	3156	N	ILE B 149	13.471	82.070	33.231	1.00	13.00	B	N
ATOM	3157	CA	ILE B 149	13.545	83.500	33.499	1.00	12.87	B	C
ATOM	3158	CB	ILE B 149	12.211	83.989	34.130	1.00	13.86	B	C
ATOM	3159	CG2	ILE B 149	12.352	85.419	34.647	1.00	12.28	B	C
ATOM	3160	CG1	ILE B 149	11.099	83.891	33.071	1.00	14.05	B	C
ATOM	3161	CD1	ILE B 149	9.694	84.067	33.608	1.00	15.21	B	C
ATOM	3162	C	ILE B 149	14.742	83.842	34.386	1.00	12.66	B	C
ATOM	3163	O	ILE B 149	15.403	84.852	34.172	1.00	11.51	B	O
ATOM	3164	N	GLU B 150	15.041	82.995	35.366	1.00	12.92	B	N
ATOM	3165	CA	GLU B 150	16.180	83.266	36.235	1.00	13.66	B	C
ATOM	3166	CB	GLU B 150	16.182	82.313	37.441	1.00	18.92	B	C
ATOM	3167	CG	GLU B 150	14.884	82.371	38.242	1.00	23.46	B	C
ATOM	3168	CD	GLU B 150	15.024	81.875	39.673	1.00	28.25	B	C
ATOM	3169	OE1	GLU B 150	15.728	80.863	39.887	1.00	30.76	B	O
ATOM	3170	OE2	GLU B 150	14.414	82.491	40.581	1.00	24.21	B	O
ATOM	3171	C	GLU B 150	17.491	83.163	35.462	1.00	13.99	B	C
ATOM	3172	O	GLU B 150	18.484	83.776	35.844	1.00	14.58	B	O
ATOM	3173	N	GLU B 151	17.500	82.403	34.370	1.00	13.36	B	N
ATOM	3174	CA	GLU B 151	18.712	82.277	33.571	1.00	16.12	B	C
ATOM	3175	CB	GLU B 151	18.863	80.861	33.006	1.00	18.99	B	C
ATOM	3176	CG	GLU B 151	20.276	80.598	32.500	1.00	25.66	B	C
ATOM	3177	CD	GLU B 151	20.615	79.128	32.403	1.00	27.80	B	C
ATOM	3178	OE1	GLU B 151	20.307	78.389	33.362	1.00	33.36	B	O
ATOM	3179	OE2	GLU B 151	21.204	78.716	31.378	1.00	24.62	B	O
ATOM	3180	C	GLU B 151	18.695	83.293	32.436	1.00	15.49	B	C
ATOM	3181	O	GLU B 151	19.515	83.243	31.522	1.00	16.76	B	O
ATOM	3182	N	SER B 152	17.746	84.218	32.514	1.00	15.83	B	N
ATOM	3183	CA	SER B 152	17.591	85.277	31.523	1.00	16.90	B	C
ATOM	3184	CB	SER B 152	18.843	86.159	31.486	1.00	16.89	B	C
ATOM	3185	OG	SER B 152	18.547	87.404	30.872	1.00	19.93	B	O
ATOM	3186	C	SER B 152	17.274	84.786	30.108	1.00	15.72	B	C
ATOM	3187	O	SER B 152	17.776	85.339	29.128	1.00	16.57	B	O
ATOM	3188	N	ILE B 153	16.452	83.746	30.003	1.00	16.59	B	N
ATOM	3189	CA	ILE B 153	16.048	83.223	28.701	1.00	16.23	B	C
ATOM	3190	CB	ILE B 153	15.840	81.688	28.747	1.00	17.80	B	C
ATOM	3191	CG2	ILE B 153	15.479	81.164	27.366	1.00	16.97	B	C
ATOM	3192	CG1	ILE B 153	17.118	81.008	29.247	1.00	18.17	B	C
ATOM	3193	CD1	ILE B 153	18.328	81.264	28.379	1.00	20.45	B	C
ATOM	3194	C	ILE B 153	14.716	83.924	28.465	1.00	17.00	B	C
ATOM	3195	O	ILE B 153	13.647	83.337	28.649	1.00	16.86	B	O
ATOM	3196	N	LEU B 154	14.802	85.192	28.074	1.00	16.13	B	N
ATOM	3197	CA	LEU B 154	13.629	86.036	27.861	1.00	17.93	B	C
ATOM	3198	CB	LEU B 154	13.891	87.412	28.475	1.00	15.30	B	C
ATOM	3199	CG	LEU B 154	14.390	87.335	29.923	1.00	14.99	B	C
ATOM	3200	CD1	LEU B 154	14.685	88.728	30.459	1.00	17.09	B	C

Figure 7EEE

ATOM	3201	CD2 LEU B 154	13.348	86.640	30.776	1.00	18.19	B	C
ATOM	3202	C LEU B 154	13.188	86.204	26.413	1.00	19.02	B	C
ATOM	3203	O LEU B 154	12.258	86.956	26.125	1.00	18.98	B	O
ATOM	3204	N GLU B 155	13.857	85.506	25.506	1.00	19.46	B	N
ATOM	3205	CA GLU B 155	13.520	85.579	24.093	1.00	20.61	B	C
ATOM	3206	CB GLU B 155	14.055	86.877	23.481	1.00	23.20	B	C
ATOM	3207	CG GLU B 155	15.563	86.894	23.285	1.00	31.50	B	C
ATOM	3208	CD GLU B 155	16.077	88.235	22.778	1.00	39.23	B	C
ATOM	3209	OE1 GLU B 155	15.483	88.786	21.824	1.00	42.91	B	O
ATOM	3210	OE2 GLU B 155	17.084	88.734	23.328	1.00	43.36	B	O
ATOM	3211	C GLU B 155	14.177	84.391	23.421	1.00	19.99	B	C
ATOM	3212	O GLU B 155	14.864	83.610	24.077	1.00	21.64	B	O
ATOM	3213	N GLY B 156	13.946	84.242	22.121	1.00	20.12	B	N
ATOM	3214	CA GLY B 156	14.563	83.152	21.396	1.00	19.17	B	C
ATOM	3215	C GLY B 156	13.844	81.820	21.366	1.00	20.79	B	C
ATOM	3216	O GLY B 156	12.804	81.618	21.995	1.00	18.13	B	O
ATOM	3217	N GLU B 157	14.451	80.898	20.626	1.00	22.19	B	N
ATOM	3218	CA GLU B 157	13.946	79.548	20.415	1.00	21.56	B	C
ATOM	3219	CB GLU B 157	14.952	78.782	19.553	1.00	25.02	B	C
ATOM	3220	CG GLU B 157	14.524	77.377	19.184	1.00	35.87	B	C
ATOM	3221	CD GLU B 157	15.499	76.703	18.231	1.00	41.09	B	C
ATOM	3222	OE1 GLU B 157	16.701	76.596	18.573	1.00	42.82	B	O
ATOM	3223	OE2 GLU B 157	15.058	76.275	17.141	1.00	42.70	B	O
ATOM	3224	C GLU B 157	13.613	78.732	21.666	1.00	20.08	B	C
ATOM	3225	O GLU B 157	12.588	78.044	21.702	1.00	18.27	B	O
ATOM	3226	N LEU B 158	14.471	78.796	22.683	1.00	17.09	B	N
ATOM	3227	CA LEU B 158	14.238	78.033	23.904	1.00	15.87	B	C
ATOM	3228	CB LEU B 158	15.447	78.132	24.842	1.00	18.05	B	C
ATOM	3229	CG LEU B 158	15.334	77.315	26.136	1.00	17.16	B	C
ATOM	3230	CD1 LEU B 158	14.977	75.872	25.807	1.00	15.66	B	C
ATOM	3231	CD2 LEU B 158	16.651	77.382	26.905	1.00	17.03	B	C
ATOM	3232	C LEU B 158	12.973	78.488	24.630	1.00	16.52	B	C
ATOM	3233	O LEU B 158	12.189	77.662	25.108	1.00	14.49	B	O
ATOM	3234	N LEU B 159	12.775	79.799	24.727	1.00	14.92	B	N
ATOM	3235	CA LEU B 159	11.580	80.306	25.383	1.00	14.51	B	C
ATOM	3236	CB LEU B 159	11.660	81.823	25.578	1.00	15.13	B	C
ATOM	3237	CG LEU B 159	10.374	82.456	26.133	1.00	16.38	B	C
ATOM	3238	CD1 LEU B 159	9.996	81.799	27.450	1.00	14.88	B	C
ATOM	3239	CD2 LEU B 159	10.574	83.955	26.326	1.00	15.09	B	C
ATOM	3240	C LEU B 159	10.367	79.951	24.519	1.00	14.59	B	C
ATOM	3241	O LEU B 159	9.350	79.492	25.028	1.00	13.56	B	O
ATOM	3242	N GLU B 160	10.483	80.150	23.209	1.00	14.14	B	N
ATOM	3243	CA GLU B 160	9.382	79.820	22.304	1.00	16.06	B	C
ATOM	3244	CB GLU B 160	9.779	80.107	20.853	1.00	18.15	B	C
ATOM	3245	CG GLU B 160	8.709	79.743	19.815	1.00	23.84	B	C
ATOM	3246	CD GLU B 160	7.357	80.384	20.107	1.00	27.35	B	C
ATOM	3247	OE1 GLU B 160	7.330	81.496	20.683	1.00	24.13	B	O
ATOM	3248	OE2 GLU B 160	6.321	79.783	19.748	1.00	30.37	B	O
ATOM	3249	C GLU B 160	8.987	78.348	22.438	1.00	15.10	B	C
ATOM	3250	O GLU B 160	7.811	78.015	22.566	1.00	16.67	B	O
ATOM	3251	N THR B 161	9.979	77.469	22.416	1.00	15.36	B	N
ATOM	3252	CA THR B 161	9.720	76.037	22.518	1.00	16.10	B	C
ATOM	3253	CB THR B 161	11.024	75.243	22.343	1.00	17.81	B	C
ATOM	3254	OG1 THR B 161	11.607	75.567	21.072	1.00	19.62	B	O
ATOM	3255	CG2 THR B 161	10.756	73.748	22.407	1.00	18.12	B	C
ATOM	3256	C THR B 161	9.066	75.676	23.851	1.00	14.89	B	C
ATOM	3257	O THR B 161	8.172	74.821	23.907	1.00	13.07	B	O
ATOM	3258	N CYS B 162	9.500	76.342	24.918	1.00	12.65	B	N

Figure 7FFF

ATOM	3259	CA	CYS B 162	8.958	76.087	26.248	1.00	15.38	B	C
ATOM	3260	CB	CYS B 162	9.800	76.796	27.310	1.00	14.79	B	C
ATOM	3261	SG	CYS B 162	9.400	76.328	29.021	1.00	16.89	B	S
ATOM	3262	C	CYS B 162	7.505	76.557	26.341	1.00	15.60	B	C
ATOM	3263	O	CYS B 162	6.651	75.849	26.877	1.00	15.21	B	O
ATOM	3264	N	MET B 163	7.226	77.756	25.831	1.00	15.17	B	N
ATOM	3265	CA	MET B 163	5.863	78.271	25.860	1.00	15.78	B	C
ATOM	3266	CB	MET B 163	5.792	79.695	25.294	1.00	15.75	B	C
ATOM	3267	CG	MET B 163	6.424	80.767	26.162	1.00	16.77	B	C
ATOM	3268	SD	MET B 163	5.978	82.432	25.603	1.00	16.61	B	S
ATOM	3269	CE	MET B 163	6.937	82.509	24.114	1.00	14.38	B	C
ATOM	3270	C	MET B 163	4.962	77.360	25.033	1.00	14.99	B	C
ATOM	3271	O	MET B 163	3.819	77.093	25.410	1.00	15.77	B	O
ATOM	3272	N	HIS B 164	5.484	76.879	23.909	1.00	15.34	B	N
ATOM	3273	CA	HIS B 164	4.718	76.002	23.033	1.00	19.25	B	C
ATOM	3274	CB	HIS B 164	5.504	75.724	21.751	1.00	20.62	B	C
ATOM	3275	CG	HIS B 164	4.693	75.055	20.688	1.00	28.25	B	C
ATOM	3276	CD2	HIS B 164	4.779	73.817	20.146	1.00	28.01	B	C
ATOM	3277	ND1	HIS B 164	3.608	75.661	20.090	1.00	29.20	B	N
ATOM	3278	CE1	HIS B 164	3.060	74.824	19.227	1.00	29.23	B	C
ATOM	3279	NE2	HIS B 164	3.750	73.698	19.243	1.00	29.55	B	N
ATOM	3280	C	HIS B 164	4.412	74.690	23.760	1.00	19.47	B	C
ATOM	3281	O	HIS B 164	3.293	74.169	23.704	1.00	17.49	B	O
ATOM	3282	N	TYR B 165	5.419	74.169	24.449	1.00	17.68	B	N
ATOM	3283	CA	TYR B 165	5.277	72.937	25.210	1.00	16.69	B	C
ATOM	3284	CB	TYR B 165	6.578	72.655	25.969	1.00	15.68	B	C
ATOM	3285	CG	TYR B 165	6.457	71.544	26.976	1.00	17.57	B	C
ATOM	3286	CD1	TYR B 165	6.384	70.211	26.569	1.00	16.95	B	C
ATOM	3287	CE1	TYR B 165	6.216	69.191	27.498	1.00	20.45	B	C
ATOM	3288	CD2	TYR B 165	6.362	71.829	28.336	1.00	15.75	B	C
ATOM	3289	CE2	TYR B 165	6.193	70.818	29.273	1.00	17.81	B	C
ATOM	3290	CZ	TYR B 165	6.119	69.501	28.847	1.00	18.80	B	C
ATOM	3291	OH	TYR B 165	5.941	68.500	29.773	1.00	19.07	B	O
ATOM	3292	C	TYR B 165	4.101	73.027	26.193	1.00	16.83	B	C
ATOM	3293	O	TYR B 165	3.303	72.094	26.310	1.00	19.76	B	O
ATOM	3294	N	TYR B 166	3.999	74.151	26.895	1.00	16.40	B	N
ATOM	3295	CA	TYR B 166	2.931	74.369	27.864	1.00	16.70	B	C
ATOM	3296	CB	TYR B 166	3.362	75.435	28.888	1.00	13.68	B	C
ATOM	3297	CG	TYR B 166	4.354	74.961	29.930	1.00	15.63	B	C
ATOM	3298	CD1	TYR B 166	5.545	75.650	30.150	1.00	13.48	B	C
ATOM	3299	CE1	TYR B 166	6.458	75.218	31.113	1.00	17.41	B	C
ATOM	3300	CD2	TYR B 166	4.097	73.825	30.702	1.00	16.97	B	C
ATOM	3301	CE2	TYR B 166	5.001	73.387	31.668	1.00	14.41	B	C
ATOM	3302	CZ	TYR B 166	6.176	74.084	31.868	1.00	15.99	B	C
ATOM	3303	OH	TYR B 166	7.058	73.648	32.827	1.00	15.83	B	O
ATOM	3304	C	TYR B 166	1.576	74.793	27.278	1.00	17.53	B	C
ATOM	3305	O	TYR B 166	0.529	74.344	27.746	1.00	18.77	B	O
ATOM	3306	N	PHE B 167	1.599	75.651	26.260	1.00	18.80	B	N
ATOM	3307	CA	PHE B 167	0.367	76.198	25.668	1.00	19.74	B	C
ATOM	3308	CB	PHE B 167	0.660	77.589	25.115	1.00	18.42	B	C
ATOM	3309	CG	PHE B 167	1.092	78.573	26.163	1.00	17.20	B	C
ATOM	3310	CD1	PHE B 167	1.928	79.627	25.824	1.00	16.80	B	C
ATOM	3311	CD2	PHE B 167	0.635	78.472	27.482	1.00	16.87	B	C
ATOM	3312	CE1	PHE B 167	2.306	80.572	26.770	1.00	17.05	B	C
ATOM	3313	CE2	PHE B 167	1.010	79.419	28.439	1.00	17.71	B	C
ATOM	3314	CZ	PHE B 167	1.851	80.472	28.075	1.00	17.51	B	C
ATOM	3315	C	PHE B 167	-0.367	75.383	24.618	1.00	21.10	B	C
ATOM	3316	O	PHE B 167	-1.597	75.430	24.535	1.00	19.22	B	O

Figure 7GGG

ATOM	3317	N	THR B 168	0.403	74.657	23.812	1.00	23.27	B	N
ATOM	3318	CA	THR B 168	-0.165	73.805	22.765	1.00	26.77	B	C
ATOM	3319	CB	THR B 168	0.865	72.832	22.187	1.00	27.57	B	C
ATOM	3320	OG1	THR B 168	1.911	73.535	21.517	1.00	32.03	B	O
ATOM	3321	CG2	THR B 168	0.186	71.880	21.180	1.00	32.54	B	C
ATOM	3322	C	THR B 168	-1.363	72.944	23.205	1.00	26.77	B	C
ATOM	3323	O	THR B 168	-2.395	72.938	22.572	1.00	28.26	B	O
ATOM	3324	N	PRO B 169	-1.239	72.197	24.326	1.00	26.46	B	N
ATOM	3325	CD	PRO B 169	-0.050	72.083	25.152	1.00	26.67	B	C
ATOM	3326	CA	PRO B 169	-2.291	71.326	24.883	1.00	25.55	B	C
ATOM	3327	CB	PRO B 169	-1.610	70.668	26.066	1.00	26.50	B	C
ATOM	3328	CG	PRO B 169	-0.169	70.666	25.699	1.00	26.43	B	C
ATOM	3329	C	PRO B 169	-3.593	72.077	25.297	1.00	24.82	B	C
ATOM	3330	O	PRO B 169	-4.610	71.418	25.576	1.00	24.34	B	O
ATOM	3331	N	LEU B 170	-3.536	73.405	25.391	1.00	22.80	B	N
ATOM	3332	CA	LEU B 170	-4.729	74.167	25.761	1.00	25.50	B	C
ATOM	3333	CB	LEU B 170	-4.385	75.632	25.964	1.00	23.84	B	C
ATOM	3334	CG	LEU B 170	-3.514	75.982	27.186	1.00	25.53	B	C
ATOM	3335	CD1	LEU B 170	-3.138	77.463	27.146	1.00	26.01	B	C
ATOM	3336	CD2	LEU B 170	-4.242	75.652	28.503	1.00	26.09	B	C
ATOM	3337	C	LEU B 170	-5.772	74.057	24.644	1.00	25.77	B	C
ATOM	3338	O	LEU B 170	-5.436	74.103	23.453	1.00	26.97	B	O
ATOM	3339	N	GLU B 171	-7.033	73.952	25.037	1.00	27.92	B	N
ATOM	3340	CA	GLU B 171	-8.117	73.860	24.078	1.00	30.46	B	C
ATOM	3341	CB	GLU B 171	-9.035	72.693	24.435	1.00	34.23	B	C
ATOM	3342	CG	GLU B 171	-8.408	71.310	24.268	1.00	36.53	B	C
ATOM	3343	CD	GLU B 171	-7.963	71.029	22.844	1.00	38.06	B	C
ATOM	3344	OE1	GLU B 171	-8.773	71.218	21.911	1.00	38.60	B	O
ATOM	3345	OE2	GLU B 171	-6.800	70.614	22.659	1.00	38.27	B	O
ATOM	3346	C	GLU B 171	-8.903	75.155	24.104	1.00	30.56	B	C
ATOM	3347	O	GLU B 171	-9.477	75.560	23.093	1.00	33.13	B	O
ATOM	3348	N	ILE B 172	-8.922	75.801	25.265	1.00	27.64	B	N
ATOM	3349	CA	ILE B 172	-9.627	77.060	25.428	1.00	26.46	B	C
ATOM	3350	CB	ILE B 172	-10.239	77.179	26.838	1.00	26.68	B	C
ATOM	3351	CG2	ILE B 172	-10.916	78.534	26.994	1.00	26.23	B	C
ATOM	3352	CG1	ILE B 172	-11.246	76.050	27.071	1.00	27.08	B	C
ATOM	3353	CD1	ILE B 172	-11.899	76.085	28.443	1.00	27.76	B	C
ATOM	3354	C	ILE B 172	-8.670	78.225	25.218	1.00	26.74	B	C
ATOM	3355	O	ILE B 172	-7.604	78.284	25.833	1.00	24.89	B	O
ATOM	3356	N	LEU B 173	-9.055	79.148	24.343	1.00	25.65	B	N
ATOM	3357	CA	LEU B 173	-8.245	80.328	24.061	1.00	25.77	B	C
ATOM	3358	CB	LEU B 173	-8.564	80.853	22.659	1.00	28.20	B	C
ATOM	3359	CG	LEU B 173	-7.682	81.962	22.082	1.00	29.17	B	C
ATOM	3360	CD1	LEU B 173	-6.227	81.521	22.081	1.00	31.35	B	C
ATOM	3361	CD2	LEU B 173	-8.144	82.281	20.661	1.00	29.98	B	C
ATOM	3362	C	LEU B 173	-8.585	81.387	25.111	1.00	24.69	B	C
ATOM	3363	O	LEU B 173	-9.720	81.852	25.188	1.00	26.80	B	O
ATOM	3364	N	PRO B 174	-7.606	81.780	25.939	1.00	21.86	B	N
ATOM	3365	CD	PRO B 174	-6.227	81.269	26.032	1.00	20.12	B	C
ATOM	3366	CA	PRO B 174	-7.857	82.786	26.973	1.00	21.00	B	C
ATOM	3367	CB	PRO B 174	-6.629	82.663	27.873	1.00	20.86	B	C
ATOM	3368	CG	PRO B 174	-5.553	82.313	26.900	1.00	20.88	B	C
ATOM	3369	C	PRO B 174	-8.058	84.215	26.481	1.00	21.07	B	C
ATOM	3370	O	PRO B 174	-7.442	84.652	25.510	1.00	20.92	B	O
ATOM	3371	N	GLU B 175	-8.941	84.932	27.163	1.00	20.88	B	N
ATOM	3372	CA	GLU B 175	-9.210	86.325	26.849	1.00	20.49	B	C
ATOM	3373	CB	GLU B 175	-10.714	86.599	26.886	1.00	22.18	B	C
ATOM	3374	CG	GLU B 175	-11.414	86.262	25.584	1.00	24.72	B	C

Figure 7HHH

ATOM	3375	CD	GLU B 175	-12.914	86.445	25.662	1.00	27.87	B	C
ATOM	3376	OE1	GLU B 175	-13.362	87.355	26.386	1.00	29.73	B	O
ATOM	3377	OE2	GLU B 175	-13.643	85.686	24.989	1.00	30.38	B	O
ATOM	3378	C	GLU B 175	-8.492	87.110	27.932	1.00	19.76	B	C
ATOM	3379	O	GLU B 175	-8.151	88.278	27.760	1.00	19.06	B	O
ATOM	3380	N	VAL B 176	-8.249	86.429	29.047	1.00	18.72	B	N
ATOM	3381	CA	VAL B 176	-7.561	87.013	30.187	1.00	18.26	B	C
ATOM	3382	CB	VAL B 176	-8.542	87.366	31.329	1.00	19.04	B	C
ATOM	3383	CG1	VAL B 176	-7.792	88.005	32.473	1.00	17.96	B	C
ATOM	3384	CG2	VAL B 176	-9.627	88.307	30.819	1.00	19.77	B	C
ATOM	3385	C	VAL B 176	-6.566	85.994	30.728	1.00	18.77	B	C
ATOM	3386	O	VAL B 176	-6.909	84.830	30.936	1.00	18.44	B	O
ATOM	3387	N	ILE B 177	-5.337	86.438	30.955	1.00	15.78	B	N
ATOM	3388	CA	ILE B 177	-4.302	85.564	31.485	1.00	15.67	B	C
ATOM	3389	CB	ILE B 177	-3.149	85.366	30.479	1.00	16.57	B	C
ATOM	3390	CG2	ILE B 177	-2.076	84.471	31.092	1.00	15.73	B	C
ATOM	3391	CG1	ILE B 177	-3.679	84.754	29.184	1.00	17.67	B	C
ATOM	3392	CD1	ILE B 177	-2.639	84.634	28.094	1.00	16.12	B	C
ATOM	3393	C	ILE B 177	-3.730	86.191	32.746	1.00	15.83	B	C
ATOM	3394	O	ILE B 177	-3.319	87.356	32.742	1.00	15.47	B	O
ATOM	3395	N	ILE B 178	-3.721	85.427	33.832	1.00	15.84	B	N
ATOM	3396	CA	ILE B 178	-3.178	85.932	35.080	1.00	15.63	B	C
ATOM	3397	CB	ILE B 178	-3.958	85.402	36.314	1.00	16.93	B	C
ATOM	3398	CG2	ILE B 178	-3.370	85.986	37.589	1.00	15.87	B	C
ATOM	3399	CG1	ILE B 178	-5.432	85.807	36.228	1.00	18.02	B	C
ATOM	3400	CD1	ILE B 178	-6.267	85.341	37.422	1.00	17.46	B	C
ATOM	3401	C	ILE B 178	-1.724	85.486	35.190	1.00	14.02	B	C
ATOM	3402	O	ILE B 178	-1.416	84.300	35.089	1.00	13.65	B	O
ATOM	3403	N	LEU B 179	-0.833	86.449	35.376	1.00	14.12	B	N
ATOM	3404	CA	LEU B 179	0.589	86.150	35.525	1.00	14.34	B	C
ATOM	3405	CB	LEU B 179	1.428	87.340	35.053	1.00	15.34	B	C
ATOM	3406	CG	LEU B 179	1.169	87.783	33.610	1.00	16.04	B	C
ATOM	3407	CD1	LEU B 179	1.942	89.073	33.332	1.00	18.24	B	C
ATOM	3408	CD2	LEU B 179	1.574	86.680	32.636	1.00	16.26	B	C
ATOM	3409	C	LEU B 179	0.783	85.915	37.021	1.00	14.01	B	C
ATOM	3410	O	LEU B 179	1.391	86.727	37.719	1.00	13.42	B	O
ATOM	3411	N	GLY B 180	0.252	84.790	37.493	1.00	13.50	B	N
ATOM	3412	CA	GLY B 180	0.310	84.448	38.906	1.00	13.79	B	C
ATOM	3413	C	GLY B 180	1.632	83.927	39.417	1.00	12.30	B	C
ATOM	3414	O	GLY B 180	1.681	82.902	40.093	1.00	14.02	B	O
ATOM	3415	N	CYS B 181	2.702	84.647	39.093	1.00	13.12	B	N
ATOM	3416	CA	CYS B 181	4.048	84.295	39.518	1.00	11.26	B	C
ATOM	3417	CB	CYS B 181	4.591	83.150	38.667	1.00	11.52	B	C
ATOM	3418	SG	CYS B 181	6.279	82.671	39.091	1.00	14.29	B	S
ATOM	3419	C	CYS B 181	4.927	85.532	39.348	1.00	11.67	B	C
ATOM	3420	O	CYS B 181	4.837	86.226	38.336	1.00	10.15	B	O
ATOM	3421	N	THR B 182	5.770	85.796	40.342	1.00	10.95	B	N
ATOM	3422	CA	THR B 182	6.671	86.950	40.329	1.00	11.68	B	C
ATOM	3423	CB	THR B 182	7.654	86.902	41.517	1.00	12.29	B	C
ATOM	3424	OG1	THR B 182	8.306	85.623	41.546	1.00	8.82	B	O
ATOM	3425	CG2	THR B 182	6.918	87.133	42.832	1.00	13.05	B	C
ATOM	3426	C	THR B 182	7.511	87.085	39.068	1.00	12.00	B	C
ATOM	3427	O	THR B 182	7.775	88.190	38.604	1.00	11.14	B	O
ATOM	3428	N	HIS B 183	7.927	85.953	38.516	1.00	11.51	B	N
ATOM	3429	CA	HIS B 183	8.782	85.934	37.333	1.00	12.53	B	C
ATOM	3430	CB	HIS B 183	9.490	84.577	37.250	1.00	12.11	B	C
ATOM	3431	CG	HIS B 183	10.413	84.301	38.396	1.00	12.62	B	C
ATOM	3432	CD2	HIS B 183	11.662	83.774	38.425	1.00	14.37	B	C

Figure 7III

ATOM	3433	ND1 HIS B 183	10.074	84.558	39.708	1.00	12.87	B	N
ATOM	3434	CE1 HIS B 183	11.076	84.206	40.495	1.00	11.92	B	C
ATOM	3435	NE2 HIS B 183	12.051	83.728	39.741	1.00	12.64	B	N
ATOM	3436	C HIS B 183	8.113	86.202	35.990	1.00	13.70	B	C
ATOM	3437	O HIS B 183	8.735	86.757	35.082	1.00	14.63	B	O
ATOM	3438	N PHE B 184	6.846	85.822	35.866	1.00	14.67	B	N
ATOM	3439	CA PHE B 184	6.134	85.945	34.595	1.00	13.80	B	C
ATOM	3440	CB PHE B 184	4.751	85.298	34.731	1.00	14.23	B	C
ATOM	3441	CG PHE B 184	4.809	83.829	35.102	1.00	13.65	B	C
ATOM	3442	CD1 PHE B 184	3.646	83.084	35.240	1.00	16.74	B	C
ATOM	3443	CD2 PHE B 184	6.035	83.207	35.355	1.00	14.92	B	C
ATOM	3444	CE1 PHE B 184	3.698	81.743	35.631	1.00	13.35	B	C
ATOM	3445	CE2 PHE B 184	6.097	81.866	35.746	1.00	14.40	B	C
ATOM	3446	CZ PHE B 184	4.923	81.136	35.884	1.00	13.35	B	C
ATOM	3447	C PHE B 184	6.049	87.314	33.921	1.00	13.82	B	C
ATOM	3448	O PHE B 184	5.991	87.391	32.691	1.00	13.30	B	O
ATOM	3449	N PRO B 185	6.032	88.409	34.697	1.00	13.55	B	N
ATOM	3450	CD PRO B 185	5.786	88.577	36.143	1.00	14.61	B	C
ATOM	3451	CA PRO B 185	5.966	89.701	34.008	1.00	14.00	B	C
ATOM	3452	CB PRO B 185	5.964	90.702	35.158	1.00	15.55	B	C
ATOM	3453	CG PRO B 185	5.186	89.971	36.210	1.00	16.68	B	C
ATOM	3454	C PRO B 185	7.158	89.907	33.063	1.00	14.41	B	C
ATOM	3455	O PRO B 185	7.057	90.640	32.076	1.00	14.66	B	O
ATOM	3456	N LEU B 186	8.285	89.257	33.355	1.00	13.60	B	N
ATOM	3457	CA LEU B 186	9.462	89.410	32.503	1.00	14.78	B	C
ATOM	3458	CB LEU B 186	10.707	88.844	33.185	1.00	16.45	B	C
ATOM	3459	CG LEU B 186	11.268	89.716	34.312	1.00	17.76	B	C
ATOM	3460	CD1 LEU B 186	12.601	89.149	34.788	1.00	18.57	B	C
ATOM	3461	CD2 LEU B 186	11.454	91.145	33.800	1.00	19.96	B	C
ATOM	3462	C LEU B 186	9.299	88.796	31.115	1.00	14.26	B	C
ATOM	3463	O LEU B 186	10.105	89.060	30.219	1.00	13.67	B	O
ATOM	3464	N ILE B 187	8.271	87.973	30.933	1.00	13.72	B	N
ATOM	3465	CA ILE B 187	8.007	87.391	29.616	1.00	14.52	B	C
ATOM	3466	CB ILE B 187	8.252	85.852	29.567	1.00	16.13	B	C
ATOM	3467	CG2 ILE B 187	9.734	85.563	29.730	1.00	15.11	B	C
ATOM	3468	CG1 ILE B 187	7.418	85.134	30.630	1.00	14.95	B	C
ATOM	3469	CD1 ILE B 187	7.386	83.616	30.452	1.00	18.91	B	C
ATOM	3470	C ILE B 187	6.559	87.681	29.216	1.00	15.97	B	C
ATOM	3471	O ILE B 187	5.970	86.973	28.399	1.00	14.41	B	O
ATOM	3472	N ALA B 188	6.003	88.742	29.790	1.00	14.30	B	N
ATOM	3473	CA ALA B 188	4.623	89.138	29.511	1.00	16.72	B	C
ATOM	3474	CB ALA B 188	4.261	90.381	30.318	1.00	17.73	B	C
ATOM	3475	C ALA B 188	4.386	89.386	28.021	1.00	17.75	B	C
ATOM	3476	O ALA B 188	3.473	88.806	27.437	1.00	15.55	B	O
ATOM	3477	N GLN B 189	5.208	90.232	27.404	1.00	18.64	B	N
ATOM	3478	CA GLN B 189	5.045	90.521	25.979	1.00	20.60	B	C
ATOM	3479	CB GLN B 189	5.977	91.668	25.553	1.00	24.25	B	C
ATOM	3480	CG GLN B 189	7.448	91.297	25.369	1.00	34.75	B	C
ATOM	3481	CD GLN B 189	8.385	92.508	25.450	1.00	39.99	B	C
ATOM	3482	OE1 GLN B 189	7.963	93.653	25.263	1.00	43.74	B	O
ATOM	3483	NE2 GLN B 189	9.663	92.254	25.720	1.00	40.19	B	N
ATOM	3484	C GLN B 189	5.279	89.273	25.111	1.00	17.97	B	C
ATOM	3485	O GLN B 189	4.729	89.163	24.015	1.00	14.32	B	O
ATOM	3486	N LYS B 190	6.078	88.329	25.606	1.00	17.40	B	N
ATOM	3487	CA LYS B 190	6.341	87.097	24.859	1.00	16.80	B	C
ATOM	3488	CB LYS B 190	7.567	86.374	25.421	1.00	18.22	B	C
ATOM	3489	CG LYS B 190	8.878	87.117	25.218	1.00	21.88	B	C
ATOM	3490	CD LYS B 190	9.211	87.269	23.740	1.00	25.45	B	C

Figure 7JJJ

ATOM	3491	CE	LYS	B	190	10.416	88.179	23.543	1.00	29.36	B	C
ATOM	3492	NZ	LYS	B	190	10.790	88.298	22.110	1.00	29.28	B	N
ATOM	3493	C	LYS	B	190	5.123	86.176	24.920	1.00	16.76	B	C
ATOM	3494	O	LYS	B	190	4.775	85.521	23.934	1.00	15.72	B	O
ATOM	3495	N	ILE	B	191	4.484	86.118	26.085	1.00	17.36	B	N
ATOM	3496	CA	ILE	B	191	3.293	85.293	26.250	1.00	16.65	B	C
ATOM	3497	CB	ILE	B	191	2.835	85.283	27.722	1.00	16.29	B	C
ATOM	3498	CG2	ILE	B	191	1.429	84.706	27.837	1.00	15.90	B	C
ATOM	3499	CG1	ILE	B	191	3.827	84.472	28.561	1.00	14.41	B	C
ATOM	3500	CD1	ILE	B	191	3.575	84.556	30.065	1.00	15.15	B	C
ATOM	3501	C	ILE	B	191	2.206	85.902	25.371	1.00	17.73	B	C
ATOM	3502	O	ILE	B	191	1.431	85.201	24.730	1.00	17.39	B	O
ATOM	3503	N	GLU	B	192	2.174	87.227	25.343	1.00	19.90	B	N
ATOM	3504	CA	GLU	B	192	1.206	87.955	24.545	1.00	20.35	B	C
ATOM	3505	CB	GLU	B	192	1.368	89.452	24.811	1.00	22.52	B	C
ATOM	3506	CG	GLU	B	192	0.186	90.301	24.426	1.00	31.49	B	C
ATOM	3507	CD	GLU	B	192	0.310	91.705	24.981	1.00	36.51	B	C
ATOM	3508	OE1	GLU	B	192	0.342	91.845	26.223	1.00	39.33	B	O
ATOM	3509	OE2	GLU	B	192	0.384	92.660	24.179	1.00	38.77	B	O
ATOM	3510	C	GLU	B	192	1.468	87.638	23.077	1.00	18.85	B	C
ATOM	3511	O	GLU	B	192	0.553	87.274	22.327	1.00	18.00	B	O
ATOM	3512	N	GLY	B	193	2.733	87.764	22.685	1.00	19.26	B	N
ATOM	3513	CA	GLY	B	193	3.134	87.497	21.319	1.00	16.37	B	C
ATOM	3514	C	GLY	B	193	2.843	86.078	20.880	1.00	17.40	B	C
ATOM	3515	O	GLY	B	193	2.580	85.832	19.700	1.00	19.53	B	O
ATOM	3516	N	TYR	B	194	2.892	85.138	21.819	1.00	15.60	B	N
ATOM	3517	CA	TYR	B	194	2.621	83.740	21.494	1.00	16.39	B	C
ATOM	3518	CB	TYR	B	194	2.829	82.845	22.715	1.00	16.47	B	C
ATOM	3519	CG	TYR	B	194	2.502	81.386	22.452	1.00	15.75	B	C
ATOM	3520	CD1	TYR	B	194	3.470	80.515	21.964	1.00	17.79	B	C
ATOM	3521	CE1	TYR	B	194	3.171	79.178	21.698	1.00	18.26	B	C
ATOM	3522	CD2	TYR	B	194	1.216	80.887	22.669	1.00	15.15	B	C
ATOM	3523	CE2	TYR	B	194	0.904	79.551	22.403	1.00	16.44	B	C
ATOM	3524	CZ	TYR	B	194	1.890	78.703	21.920	1.00	15.60	B	C
ATOM	3525	OH	TYR	B	194	1.614	77.379	21.671	1.00	17.72	B	O
ATOM	3526	C	TYR	B	194	1.189	83.551	21.003	1.00	16.01	B	C
ATOM	3527	O	TYR	B	194	0.966	82.985	19.940	1.00	17.33	B	O
ATOM	3528	N	PHE	B	195	0.218	84.011	21.785	1.00	17.37	B	N
ATOM	3529	CA	PHE	B	195	-1.177	83.851	21.390	1.00	19.84	B	C
ATOM	3530	CB	PHE	B	195	-2.108	84.174	22.563	1.00	20.48	B	C
ATOM	3531	CG	PHE	B	195	-2.057	83.146	23.659	1.00	21.18	B	C
ATOM	3532	CD1	PHE	B	195	-1.166	83.281	24.720	1.00	20.24	B	C
ATOM	3533	CD2	PHE	B	195	-2.847	82.002	23.590	1.00	20.40	B	C
ATOM	3534	CE1	PHE	B	195	-1.061	82.289	25.692	1.00	18.52	B	C
ATOM	3535	CE2	PHE	B	195	-2.748	81.004	24.558	1.00	21.83	B	C
ATOM	3536	CZ	PHE	B	195	-1.853	81.149	25.609	1.00	18.80	B	C
ATOM	3537	C	PHE	B	195	-1.549	84.675	20.168	1.00	21.22	B	C
ATOM	3538	O	PHE	B	195	-2.381	84.260	19.364	1.00	23.42	B	O
ATOM	3539	N	MET	B	196	-0.920	85.835	20.018	1.00	20.91	B	N
ATOM	3540	CA	MET	B	196	-1.191	86.691	18.874	1.00	22.63	B	C
ATOM	3541	CB	MET	B	196	-0.632	88.096	19.110	1.00	21.19	B	C
ATOM	3542	CG	MET	B	196	-1.454	88.939	20.066	1.00	21.47	B	C
ATOM	3543	SD	MET	B	196	-3.106	89.333	19.420	1.00	22.89	B	S
ATOM	3544	CE	MET	B	196	-2.734	90.738	18.369	1.00	25.90	B	C
ATOM	3545	C	MET	B	196	-0.574	86.098	17.616	1.00	22.76	B	C
ATOM	3546	O	MET	B	196	-1.034	86.365	16.510	1.00	22.32	B	O
ATOM	3547	N	GLY	B	197	0.462	85.284	17.788	1.00	23.35	B	N
ATOM	3548	CA	GLY	B	197	1.117	84.682	16.644	1.00	23.78	B	C

Figure 7KKK

ATOM	3549	C	GLY B 197	0.612	83.294	16.308	1.00	26.07	B	C
ATOM	3550	O	GLY B 197	0.757	82.836	15.178	1.00	27.06	B	O
ATOM	3551	N	HIS B 198	0.011	82.618	17.280	1.00	24.62	B	N
ATOM	3552	CA	HIS B 198	-0.489	81.270	17.052	1.00	25.26	B	C
ATOM	3553	CB	HIS B 198	-0.143	80.393	18.250	1.00	24.79	B	C
ATOM	3554	CG	HIS B 198	1.318	80.087	18.358	1.00	27.65	B	C
ATOM	3555	CD2	HIS B 198	2.369	80.867	18.706	1.00	27.06	B	C
ATOM	3556	ND1	HIS B 198	1.847	78.858	18.026	1.00	29.54	B	N
ATOM	3557	CE1	HIS B 198	3.161	78.896	18.162	1.00	28.74	B	C
ATOM	3558	NE2	HIS B 198	3.503	80.104	18.572	1.00	27.31	B	N
ATOM	3559	C	HIS B 198	-1.982	81.189	16.742	1.00	25.16	B	C
ATOM	3560	O	HIS B 198	-2.470	80.160	16.274	1.00	25.84	B	O
ATOM	3561	N	PHE B 199	-2.701	82.274	17.002	1.00	23.99	B	N
ATOM	3562	CA	PHE B 199	-4.134	82.323	16.731	1.00	25.24	B	C
ATOM	3563	CB	PHE B 199	-4.939	82.150	18.021	1.00	25.35	B	C
ATOM	3564	CG	PHE B 199	-4.641	80.875	18.754	1.00	25.83	B	C
ATOM	3565	CD1	PHE B 199	-3.499	80.763	19.543	1.00	25.81	B	C
ATOM	3566	CD2	PHE B 199	-5.486	79.776	18.634	1.00	26.63	B	C
ATOM	3567	CE1	PHE B 199	-3.202	79.571	20.204	1.00	25.90	B	C
ATOM	3568	CE2	PHE B 199	-5.200	78.574	19.292	1.00	27.07	B	C
ATOM	3569	CZ	PHE B 199	-4.053	78.476	20.078	1.00	25.59	B	C
ATOM	3570	C	PHE B 199	-4.488	83.658	16.085	1.00	25.45	B	C
ATOM	3571	O	PHE B 199	-3.741	84.633	16.202	1.00	26.05	B	O
ATOM	3572	N	ALA B 200	-5.624	83.698	15.397	1.00	25.36	B	N
ATOM	3573	CA	ALA B 200	-6.066	84.926	14.744	1.00	26.49	B	C
ATOM	3574	CB	ALA B 200	-6.945	84.592	13.543	1.00	27.04	B	C
ATOM	3575	C	ALA B 200	-6.842	85.770	15.748	1.00	25.75	B	C
ATOM	3576	O	ALA B 200	-8.035	85.555	15.951	1.00	27.07	B	O
ATOM	3577	N	LEU B 201	-6.162	86.723	16.380	1.00	26.03	B	N
ATOM	3578	CA	LEU B 201	-6.801	87.588	17.371	1.00	25.45	B	C
ATOM	3579	CB	LEU B 201	-6.206	87.345	18.762	1.00	26.37	B	C
ATOM	3580	CG	LEU B 201	-6.409	85.971	19.404	1.00	27.87	B	C
ATOM	3581	CD1	LEU B 201	-5.727	85.944	20.768	1.00	27.55	B	C
ATOM	3582	CD2	LEU B 201	-7.895	85.681	19.539	1.00	28.11	B	C
ATOM	3583	C	LEU B 201	-6.668	89.069	17.041	1.00	24.86	B	C
ATOM	3584	O	LEU B 201	-5.571	89.565	16.801	1.00	25.77	B	O
ATOM	3585	N	PRO B 202	-7.792	89.795	17.036	1.00	25.07	B	N
ATOM	3586	CD	PRO B 202	-9.159	89.302	17.284	1.00	27.27	B	C
ATOM	3587	CA	PRO B 202	-7.801	91.229	16.739	1.00	27.30	B	C
ATOM	3588	CB	PRO B 202	-9.286	91.530	16.571	1.00	26.61	B	C
ATOM	3589	CG	PRO B 202	-9.919	90.581	17.541	1.00	28.74	B	C
ATOM	3590	C	PRO B 202	-7.162	92.024	17.878	1.00	28.85	B	C
ATOM	3591	O	PRO B 202	-6.625	93.111	17.676	1.00	31.54	B	O
ATOM	3592	N	THR B 203	-7.228	91.467	19.080	1.00	29.83	B	N
ATOM	3593	CA	THR B 203	-6.649	92.104	20.253	1.00	30.73	B	C
ATOM	3594	CB	THR B 203	-7.717	92.910	21.029	1.00	32.69	B	C
ATOM	3595	OG1	THR B 203	-7.113	93.535	22.168	1.00	38.76	B	O
ATOM	3596	CG2	THR B 203	-8.854	92.009	21.478	1.00	34.49	B	C
ATOM	3597	C	THR B 203	-6.057	91.009	21.142	1.00	30.11	B	C
ATOM	3598	O	THR B 203	-6.632	89.929	21.281	1.00	29.77	B	O
ATOM	3599	N	PRO B 204	-4.888	91.271	21.746	1.00	28.28	B	N
ATOM	3600	CD	PRO B 204	-4.105	92.519	21.714	1.00	29.99	B	C
ATOM	3601	CA	PRO B 204	-4.249	90.278	22.608	1.00	25.72	B	C
ATOM	3602	CB	PRO B 204	-2.871	90.878	22.851	1.00	27.64	B	C
ATOM	3603	CG	PRO B 204	-3.170	92.344	22.895	1.00	30.54	B	C
ATOM	3604	C	PRO B 204	-5.007	90.034	23.906	1.00	22.99	B	C
ATOM	3605	O	PRO B 204	-5.829	90.847	24.322	1.00	21.45	B	O
ATOM	3606	N	PRO B 205	-4.754	88.888	24.550	1.00	23.17	B	N

Figure 7LLL

ATOM	3607	CD	PRO	B	205	-3.967	87.734	24.079	1.00	22.14	B	C
ATOM	3608	CA	PRO	B	205	-5.435	88.579	25.812	1.00	21.71	B	C
ATOM	3609	CB	PRO	B	205	-4.930	87.177	26.145	1.00	20.02	B	C
ATOM	3610	CG	PRO	B	205	-4.640	86.587	24.791	1.00	24.28	B	C
ATOM	3611	C	PRO	B	205	-5.013	89.592	26.870	1.00	20.42	B	C
ATOM	3612	O	PRO	B	205	-3.884	90.081	26.855	1.00	20.68	B	O
ATOM	3613	N	LEU	B	206	-5.920	89.912	27.781	1.00	19.56	B	N
ATOM	3614	CA	LEU	B	206	-5.614	90.852	28.844	1.00	18.19	B	C
ATOM	3615	CB	LEU	B	206	-6.903	91.341	29.506	1.00	19.98	B	C
ATOM	3616	CG	LEU	B	206	-6.733	92.187	30.772	1.00	20.16	B	C
ATOM	3617	CD1	LEU	B	206	-6.025	93.490	30.435	1.00	20.32	B	C
ATOM	3618	CD2	LEU	B	206	-8.097	92.461	31.383	1.00	21.77	B	C
ATOM	3619	C	LEU	B	206	-4.748	90.152	29.887	1.00	19.09	B	C
ATOM	3620	O	LEU	B	206	-5.155	89.137	30.460	1.00	16.01	B	O
ATOM	3621	N	LEU	B	207	-3.554	90.682	30.130	1.00	17.87	B	N
ATOM	3622	CA	LEU	B	207	-2.673	90.086	31.128	1.00	19.96	B	C
ATOM	3623	CB	LEU	B	207	-1.204	90.137	30.683	1.00	20.75	B	C
ATOM	3624	CG	LEU	B	207	-0.775	89.375	29.427	1.00	23.64	B	C
ATOM	3625	CD1	LEU	B	207	0.754	89.247	29.409	1.00	24.69	B	C
ATOM	3626	CD2	LEU	B	207	-1.402	88.003	29.411	1.00	25.49	B	C
ATOM	3627	C	LEU	B	207	-2.822	90.826	32.450	1.00	18.55	B	C
ATOM	3628	O	LEU	B	207	-2.846	92.056	32.489	1.00	19.17	B	O
ATOM	3629	N	ILE	B	208	-2.925	90.067	33.534	1.00	17.96	B	N
ATOM	3630	CA	ILE	B	208	-3.064	90.645	34.860	1.00	17.50	B	C
ATOM	3631	CB	ILE	B	208	-4.118	89.878	35.685	1.00	17.43	B	C
ATOM	3632	CG2	ILE	B	208	-4.243	90.491	37.077	1.00	18.18	B	C
ATOM	3633	CG1	ILE	B	208	-5.459	89.892	34.943	1.00	18.45	B	C
ATOM	3634	CD1	ILE	B	208	-6.012	91.289	34.699	1.00	14.50	B	C
ATOM	3635	C	ILE	B	208	-1.719	90.585	35.575	1.00	16.82	B	C
ATOM	3636	O	ILE	B	208	-1.164	89.508	35.780	1.00	15.89	B	O
ATOM	3637	N	HIS	B	209	-1.213	91.756	35.950	1.00	17.14	B	N
ATOM	3638	CA	HIS	B	209	0.074	91.899	36.632	1.00	18.16	B	C
ATOM	3639	CB	HIS	B	209	0.745	93.175	36.106	1.00	18.91	B	C
ATOM	3640	CG	HIS	B	209	2.193	93.306	36.457	1.00	20.99	B	C
ATOM	3641	CD2	HIS	B	209	3.306	93.162	35.699	1.00	19.36	B	C
ATOM	3642	ND1	HIS	B	209	2.629	93.657	37.716	1.00	22.36	B	N
ATOM	3643	CE1	HIS	B	209	3.949	93.725	37.718	1.00	21.52	B	C
ATOM	3644	NE2	HIS	B	209	4.384	93.429	36.506	1.00	15.94	B	N
ATOM	3645	C	HIS	B	209	-0.149	91.980	38.150	1.00	17.31	B	C
ATOM	3646	O	HIS	B	209	-0.909	92.826	38.621	1.00	17.80	B	O
ATOM	3647	N	SER	B	210	0.513	91.104	38.908	1.00	15.90	B	N
ATOM	3648	CA	SER	B	210	0.361	91.070	40.366	1.00	18.09	B	C
ATOM	3649	CB	SER	B	210	1.187	89.931	40.975	1.00	15.92	B	C
ATOM	3650	OG	SER	B	210	0.783	88.671	40.475	1.00	17.30	B	O
ATOM	3651	C	SER	B	210	0.762	92.368	41.048	1.00	18.89	B	C
ATOM	3652	O	SER	B	210	0.146	92.783	42.036	1.00	18.64	B	O
ATOM	3653	N	GLY	B	211	1.806	92.999	40.527	1.00	18.49	B	N
ATOM	3654	CA	GLY	B	211	2.276	94.241	41.105	1.00	17.93	B	C
ATOM	3655	C	GLY	B	211	1.300	95.384	40.929	1.00	18.65	B	C
ATOM	3656	O	GLY	B	211	0.988	96.088	41.888	1.00	18.89	B	O
ATOM	3657	N	ASP	B	212	0.821	95.585	39.708	1.00	17.89	B	N
ATOM	3658	CA	ASP	B	212	-0.122	96.666	39.454	1.00	19.78	B	C
ATOM	3659	CB	ASP	B	212	-0.441	96.776	37.959	1.00	21.36	B	C
ATOM	3660	CG	ASP	B	212	0.789	97.074	37.119	1.00	25.55	B	C
ATOM	3661	OD1	ASP	B	212	1.588	97.954	37.509	1.00	24.93	B	O
ATOM	3662	OD2	ASP	B	212	0.948	96.432	36.059	1.00	27.71	B	O
ATOM	3663	C	ASP	B	212	-1.414	96.441	40.227	1.00	18.76	B	C
ATOM	3664	O	ASP	B	212	-2.025	97.389	40.712	1.00	19.27	B	O

Figure 7MMM

ATOM	3665	N	ALA B 213	-1.825	95.182	40.344	1.00	19.86	B	N
ATOM	3666	CA	ALA B 213	-3.055	94.847	41.054	1.00	17.54	B	C
ATOM	3667	CB	ALA B 213	-3.378	93.372	40.876	1.00	17.05	B	C
ATOM	3668	C	ALA B 213	-2.959	95.183	42.539	1.00	19.06	B	C
ATOM	3669	O	ALA B 213	-3.901	95.725	43.120	1.00	16.90	B	O
ATOM	3670	N	ILE B 214	-1.823	94.876	43.158	1.00	15.97	B	N
ATOM	3671	CA	ILE B 214	-1.678	95.162	44.577	1.00	16.41	B	C
ATOM	3672	CB	ILE B 214	-0.503	94.357	45.206	1.00	17.51	B	C
ATOM	3673	CG2	ILE B 214	0.841	94.960	44.809	1.00	16.99	B	C
ATOM	3674	CG1	ILE B 214	-0.639	94.359	46.733	1.00	17.48	B	C
ATOM	3675	CD1	ILE B 214	0.283	93.366	47.436	1.00	20.67	B	C
ATOM	3676	C	ILE B 214	-1.516	96.656	44.864	1.00	16.49	B	C
ATOM	3677	O	ILE B 214	-1.933	97.133	45.917	1.00	16.10	B	O
ATOM	3678	N	VAL B 215	-0.927	97.403	43.933	1.00	16.36	B	N
ATOM	3679	CA	VAL B 215	-0.772	98.841	44.139	1.00	17.16	B	C
ATOM	3680	CB	VAL B 215	-0.016	99.509	42.964	1.00	19.48	B	C
ATOM	3681	CG1	VAL B 215	-0.179	101.017	43.027	1.00	17.77	B	C
ATOM	3682	CG2	VAL B 215	1.470	99.147	43.022	1.00	17.10	B	C
ATOM	3683	C	VAL B 215	-2.161	99.471	44.259	1.00	18.05	B	C
ATOM	3684	O	VAL B 215	-2.417	100.282	45.153	1.00	17.39	B	O
ATOM	3685	N	GLU B 216	-3.054	99.089	43.354	1.00	19.67	B	N
ATOM	3686	CA	GLU B 216	-4.411	99.617	43.357	1.00	21.54	B	C
ATOM	3687	CB	GLU B 216	-5.188	99.059	42.166	1.00	23.84	B	C
ATOM	3688	CG	GLU B 216	-4.815	99.727	40.853	1.00	26.87	B	C
ATOM	3689	CD	GLU B 216	-5.388	99.014	39.648	1.00	30.91	B	C
ATOM	3690	OE1	GLU B 216	-5.399	99.623	38.558	1.00	34.30	B	O
ATOM	3691	OE2	GLU B 216	-5.815	97.845	39.785	1.00	31.99	B	O
ATOM	3692	C	GLU B 216	-5.126	99.293	44.657	1.00	20.92	B	C
ATOM	3693	O	GLU B 216	-5.815	100.141	45.223	1.00	19.64	B	O
ATOM	3694	N	TYR B 217	-4.955	98.065	45.135	1.00	21.71	B	N
ATOM	3695	CA	TYR B 217	-5.583	97.649	46.386	1.00	21.99	B	C
ATOM	3696	CB	TYR B 217	-5.307	96.167	46.658	1.00	22.18	B	C
ATOM	3697	CG	TYR B 217	-5.831	95.693	47.995	1.00	20.53	B	C
ATOM	3698	CD1	TYR B 217	-7.199	95.534	48.213	1.00	22.61	B	C
ATOM	3699	CE1	TYR B 217	-7.692	95.113	49.456	1.00	20.09	B	C
ATOM	3700	CD2	TYR B 217	-4.961	95.422	49.051	1.00	19.57	B	C
ATOM	3701	CE2	TYR B 217	-5.440	95.002	50.293	1.00	19.82	B	C
ATOM	3702	CZ	TYR B 217	-6.807	94.849	50.488	1.00	20.38	B	C
ATOM	3703	OH	TYR B 217	-7.288	94.422	51.709	1.00	19.08	B	O
ATOM	3704	C	TYR B 217	-5.056	98.473	47.558	1.00	22.00	B	C
ATOM	3705	O	TYR B 217	-5.832	98.992	48.362	1.00	21.85	B	O
ATOM	3706	N	LEU B 218	-3.734	98.591	47.654	1.00	19.08	B	N
ATOM	3707	CA	LEU B 218	-3.113	99.341	48.740	1.00	19.40	B	C
ATOM	3708	CB	LEU B 218	-1.585	99.279	48.615	1.00	17.82	B	C
ATOM	3709	CG	LEU B 218	-0.941	97.888	48.742	1.00	18.28	B	C
ATOM	3710	CD1	LEU B 218	0.541	97.968	48.389	1.00	15.96	B	C
ATOM	3711	CD2	LEU B 218	-1.128	97.353	50.155	1.00	16.26	B	C
ATOM	3712	C	LEU B 218	-3.582	100.798	48.791	1.00	21.94	B	C
ATOM	3713	O	LEU B 218	-3.841	101.335	49.866	1.00	18.51	B	O
ATOM	3714	N	GLN B 219	-3.691	101.433	47.629	1.00	22.92	B	N
ATOM	3715	CA	GLN B 219	-4.139	102.822	47.562	1.00	24.80	B	C
ATOM	3716	CB	GLN B 219	-4.004	103.353	46.129	1.00	26.04	B	C
ATOM	3717	CG	GLN B 219	-2.577	103.325	45.592	1.00	28.25	B	C
ATOM	3718	CD	GLN B 219	-2.470	103.820	44.156	1.00	28.07	B	C
ATOM	3719	OE1	GLN B 219	-3.166	103.334	43.262	1.00	25.98	B	O
ATOM	3720	NE2	GLN B 219	-1.588	104.790	43.932	1.00	30.48	B	N
ATOM	3721	C	GLN B 219	-5.596	102.914	48.005	1.00	24.27	B	C
ATOM	3722	O	GLN B 219	-5.995	103.859	48.683	1.00	25.16	B	O

Figure 7NNN

ATOM	3723	N	GLN B 220	-6.375	101.912	47.620	1.00	24.30	B	N
ATOM	3724	CA	GLN B 220	-7.792	101.838	47.943	1.00	28.00	B	C
ATOM	3725	CB	GLN B 220	-8.410	100.663	47.184	1.00	31.02	B	C
ATOM	3726	CG	GLN B 220	-9.920	100.674	47.077	1.00	39.36	B	C
ATOM	3727	CD	GLN B 220	-10.411	101.639	46.020	1.00	44.14	B	C
ATOM	3728	OE1	GLN B 220	-10.260	102.854	46.154	1.00	47.44	B	O
ATOM	3729	NE2	GLN B 220	-10.995	101.101	44.954	1.00	47.51	B	N
ATOM	3730	C	GLN B 220	-8.013	101.635	49.444	1.00	29.46	B	C
ATOM	3731	O	GLN B 220	-8.553	102.499	50.137	1.00	28.33	B	O
ATOM	3732	N	LYS B 221	-7.570	100.477	49.927	1.00	29.84	B	N
ATOM	3733	CA	LYS B 221	-7.720	100.075	51.321	1.00	28.05	B	C
ATOM	3734	CB	LYS B 221	-7.249	98.626	51.477	1.00	29.20	B	C
ATOM	3735	CG	LYS B 221	-8.124	97.761	52.381	1.00	33.06	B	C
ATOM	3736	CD	LYS B 221	-8.114	98.242	53.817	1.00	34.46	B	C
ATOM	3737	CE	LYS B 221	-8.796	97.239	54.738	1.00	34.63	B	C
ATOM	3738	NZ	LYS B 221	-8.003	95.993	54.896	1.00	31.31	B	N
ATOM	3739	C	LYS B 221	-7.012	100.953	52.345	1.00	27.08	B	C
ATOM	3740	O	LYS B 221	-7.556	101.230	53.416	1.00	27.24	B	O
ATOM	3741	N	TYR B 222	-5.804	101.399	52.029	1.00	25.82	B	N
ATOM	3742	CA	TYR B 222	-5.052	102.212	52.973	1.00	27.04	B	C
ATOM	3743	CB	TYR B 222	-3.658	101.616	53.147	1.00	22.44	B	C
ATOM	3744	CG	TYR B 222	-3.708	100.166	53.576	1.00	22.86	B	C
ATOM	3745	CD1	TYR B 222	-4.156	99.815	54.854	1.00	19.32	B	C
ATOM	3746	CE1	TYR B 222	-4.258	98.484	55.243	1.00	19.44	B	C
ATOM	3747	CD2	TYR B 222	-3.357	99.134	52.694	1.00	20.72	B	C
ATOM	3748	CE2	TYR B 222	-3.456	97.792	53.078	1.00	19.21	B	C
ATOM	3749	CZ	TYR B 222	-3.909	97.482	54.351	1.00	19.82	B	C
ATOM	3750	OH	TYR B 222	-4.027	96.167	54.725	1.00	19.05	B	O
ATOM	3751	C	TYR B 222	-4.968	103.667	52.539	1.00	29.48	B	C
ATOM	3752	O	TYR B 222	-4.096	104.405	52.986	1.00	31.72	B	O
ATOM	3753	N	ALA B 223	-5.900	104.089	51.696	1.00	32.87	B	N
ATOM	3754	CA	ALA B 223	-5.895	105.466	51.201	1.00	36.60	B	C
ATOM	3755	CB	ALA B 223	-6.672	106.421	52.148	1.00	37.41	B	C
ATOM	3756	C	ALA B 223	-4.442	105.909	51.088	1.00	38.06	B	C
ATOM	3757	O	ALA B 223	-4.060	106.977	51.560	1.00	38.78	B	O
ATOM	3758	N	LEU B 224	-3.627	105.088	50.441	1.00	38.57	B	N
ATOM	3759	CA	LEU B 224	-2.215	105.403	50.264	1.00	38.61	B	C
ATOM	3760	CB	LEU B 224	-1.402	104.097	50.136	1.00	39.37	B	C
ATOM	3761	CG	LEU B 224	-1.183	103.355	51.466	1.00	39.96	B	C
ATOM	3762	CD1	LEU B 224	-0.057	102.350	51.297	1.00	39.16	B	C
ATOM	3763	CD2	LEU B 224	-0.818	104.336	52.585	1.00	41.79	B	C
ATOM	3764	C	LEU B 224	-1.949	106.306	49.064	1.00	38.91	B	C
ATOM	3765	O	LEU B 224	-2.714	106.190	48.105	1.00	38.22	B	O
ATOM	3766	OXT	LEU B 224	-0.969	107.085	49.068	1.00	39.30	B	O
ATOM	3767	CB	PRO B 232	11.684	106.007	48.754	1.00	35.25	B	C
ATOM	3768	CG	PRO B 232	11.385	107.285	47.963	1.00	36.48	B	C
ATOM	3769	C	PRO B 232	13.583	105.559	50.328	1.00	32.21	B	C
ATOM	3770	O	PRO B 232	14.407	105.139	49.517	1.00	33.63	B	O
ATOM	3771	N	PRO B 232	13.132	107.820	49.423	1.00	34.70	B	N
ATOM	3772	CD	PRO B 232	12.673	108.108	48.053	1.00	35.80	B	C
ATOM	3773	CA	PRO B 232	12.514	106.559	49.903	1.00	34.68	B	C
ATOM	3774	N	LYS B 233	13.566	105.183	51.602	1.00	30.94	B	N
ATOM	3775	CA	LYS B 233	14.542	104.237	52.126	1.00	27.68	B	C
ATOM	3776	CB	LYS B 233	14.693	104.412	53.637	1.00	30.73	B	C
ATOM	3777	CG	LYS B 233	15.074	105.817	54.076	1.00	37.18	B	C
ATOM	3778	CD	LYS B 233	15.073	105.930	55.594	1.00	41.29	B	C
ATOM	3779	CE	LYS B 233	15.358	107.357	56.045	1.00	46.10	B	C
ATOM	3780	NZ	LYS B 233	15.389	107.476	57.535	1.00	49.46	B	N

Figure 7000

ATOM	3781	C	LYS B 233	14.115	102.805	51.823	1.00	25.78	B	C
ATOM	3782	O	LYS B 233	12.984	102.404	52.108	1.00	21.74	B	O
ATOM	3783	N	VAL B 234	15.027	102.041	51.238	1.00	23.23	B	N
ATOM	3784	CA	VAL B 234	14.755	100.652	50.902	1.00	22.01	B	C
ATOM	3785	CB	VAL B 234	14.425	100.486	49.403	1.00	22.47	B	C
ATOM	3786	CG1	VAL B 234	14.095	99.034	49.105	1.00	23.89	B	C
ATOM	3787	CG2	VAL B 234	13.267	101.386	49.015	1.00	24.31	B	C
ATOM	3788	C	VAL B 234	15.997	99.825	51.204	1.00	21.91	B	C
ATOM	3789	O	VAL B 234	17.083	100.121	50.702	1.00	19.49	B	O
ATOM	3790	N	GLU B 235	15.850	98.805	52.041	1.00	19.26	B	N
ATOM	3791	CA	GLU B 235	16.987	97.956	52.343	1.00	19.57	B	C
ATOM	3792	CB	GLU B 235	17.407	98.085	53.812	1.00	22.19	B	C
ATOM	3793	CG	GLU B 235	16.367	97.736	54.849	1.00	27.30	B	C
ATOM	3794	CD	GLU B 235	16.893	97.954	56.266	1.00	31.20	B	C
ATOM	3795	OE1	GLU B 235	17.214	99.113	56.617	1.00	30.91	B	O
ATOM	3796	OE2	GLU B 235	16.992	96.967	57.027	1.00	31.05	B	O
ATOM	3797	C	GLU B 235	16.667	96.513	51.979	1.00	17.90	B	C
ATOM	3798	O	GLU B 235	15.514	96.071	52.067	1.00	17.20	B	O
ATOM	3799	N	PHE B 236	17.694	95.797	51.538	1.00	15.16	B	N
ATOM	3800	CA	PHE B 236	17.540	94.417	51.121	1.00	14.57	B	C
ATOM	3801	CB	PHE B 236	18.080	94.240	49.702	1.00	13.24	B	C
ATOM	3802	CG	PHE B 236	17.406	95.123	48.695	1.00	14.78	B	C
ATOM	3803	CD1	PHE B 236	17.807	96.448	48.529	1.00	13.54	B	C
ATOM	3804	CD2	PHE B 236	16.338	94.647	47.944	1.00	13.10	B	C
ATOM	3805	CE1	PHE B 236	17.148	97.281	47.625	1.00	15.52	B	C
ATOM	3806	CE2	PHE B 236	15.676	95.471	47.043	1.00	11.79	B	C
ATOM	3807	CZ	PHE B 236	16.083	96.792	46.884	1.00	13.41	B	C
ATOM	3808	C	PHE B 236	18.206	93.432	52.055	1.00	14.79	B	C
ATOM	3809	O	PHE B 236	19.298	93.668	52.566	1.00	14.15	B	O
ATOM	3810	N	HIS B 237	17.519	92.319	52.270	1.00	13.68	B	N
ATOM	3811	CA	HIS B 237	17.993	91.266	53.147	1.00	11.28	B	C
ATOM	3812	CB	HIS B 237	17.235	91.319	54.466	1.00	12.27	B	C
ATOM	3813	CG	HIS B 237	17.437	92.597	55.219	1.00	14.02	B	C
ATOM	3814	CD2	HIS B 237	16.779	93.778	55.159	1.00	14.88	B	C
ATOM	3815	ND1	HIS B 237	18.460	92.771	56.126	1.00	14.41	B	N
ATOM	3816	CE1	HIS B 237	18.423	94.006	56.593	1.00	18.35	B	C
ATOM	3817	NE2	HIS B 237	17.413	94.638	56.023	1.00	14.90	B	N
ATOM	3818	C	HIS B 237	17.705	89.961	52.437	1.00	13.01	B	C
ATOM	3819	O	HIS B 237	16.725	89.860	51.702	1.00	12.07	B	O
ATOM	3820	N	ALA B 238	18.554	88.967	52.665	1.00	12.63	B	N
ATOM	3821	CA	ALA B 238	18.387	87.671	52.022	1.00	11.54	B	C
ATOM	3822	CB	ALA B 238	19.018	87.700	50.639	1.00	9.85	B	C
ATOM	3823	C	ALA B 238	19.010	86.554	52.836	1.00	14.48	B	C
ATOM	3824	O	ALA B 238	19.998	86.765	53.533	1.00	14.69	B	O
ATOM	3825	N	SER B 239	18.424	85.364	52.741	1.00	14.68	B	N
ATOM	3826	CA	SER B 239	18.948	84.202	53.447	1.00	14.80	B	C
ATOM	3827	CB	SER B 239	17.862	83.141	53.608	1.00	13.43	B	C
ATOM	3828	OG	SER B 239	17.340	82.758	52.355	1.00	13.26	B	O
ATOM	3829	C	SER B 239	20.104	83.656	52.614	1.00	14.91	B	C
ATOM	3830	O	SER B 239	20.945	82.902	53.107	1.00	12.99	B	O
ATOM	3831	N	GLY B 240	20.134	84.050	51.344	1.00	14.12	B	N
ATOM	3832	CA	GLY B 240	21.197	83.631	50.455	1.00	15.59	B	C
ATOM	3833	C	GLY B 240	22.217	84.752	50.346	1.00	16.66	B	C
ATOM	3834	O	GLY B 240	22.520	85.416	51.334	1.00	16.99	B	O
ATOM	3835	N	ASP B 241	22.732	84.985	49.145	1.00	15.94	B	N
ATOM	3836	CA	ASP B 241	23.722	86.036	48.947	1.00	17.18	B	C
ATOM	3837	CB	ASP B 241	24.487	85.795	47.649	1.00	18.32	B	C
ATOM	3838	CG	ASP B 241	25.703	86.673	47.527	1.00	21.73	B	C

Figure 7PPP

ATOM	3839	OD1 ASP B 241	25.702	87.771	48.126	1.00	22.80	B	O
ATOM	3840	OD2 ASP B 241	26.653	86.277	46.824	1.00	23.86	B	O
ATOM	3841	C ASP B 241	23.070	87.416	48.899	1.00	15.91	B	C
ATOM	3842	O ASP B 241	22.566	87.838	47.855	1.00	18.69	B	O
ATOM	3843	N VAL B 242	23.091	88.125	50.022	1.00	15.82	B	N
ATOM	3844	CA VAL B 242	22.480	89.447	50.079	1.00	15.47	B	C
ATOM	3845	CB VAL B 242	22.373	89.961	51.538	1.00	14.55	B	C
ATOM	3846	CG1 VAL B 242	23.753	90.329	52.079	1.00	14.67	B	C
ATOM	3847	CG2 VAL B 242	21.405	91.147	51.599	1.00	13.95	B	C
ATOM	3848	C VAL B 242	23.230	90.480	49.242	1.00	16.20	B	C
ATOM	3849	O VAL B 242	22.624	91.396	48.693	1.00	16.97	B	O
ATOM	3850	N ILE B 243	24.546	90.347	49.145	1.00	15.87	B	N
ATOM	3851	CA ILE B 243	25.307	91.303	48.351	1.00	15.88	B	C
ATOM	3852	CB ILE B 243	26.833	91.076	48.512	1.00	17.32	B	C
ATOM	3853	CG2 ILE B 243	27.606	91.924	47.510	1.00	17.19	B	C
ATOM	3854	CG1 ILE B 243	27.249	91.447	49.940	1.00	19.37	B	C
ATOM	3855	CD1 ILE B 243	28.685	91.096	50.286	1.00	19.42	B	C
ATOM	3856	C ILE B 243	24.882	91.191	46.889	1.00	14.23	B	C
ATOM	3857	O ILE B 243	24.745	92.200	46.201	1.00	14.19	B	O
ATOM	3858	N TRP B 244	24.651	89.967	46.421	1.00	14.60	B	N
ATOM	3859	CA TRP B 244	24.207	89.756	45.046	1.00	14.98	B	C
ATOM	3860	CB TRP B 244	24.078	88.264	44.729	1.00	15.60	B	C
ATOM	3861	CG TRP B 244	23.575	87.999	43.329	1.00	16.65	B	C
ATOM	3862	CD2 TRP B 244	22.210	87.806	42.930	1.00	19.35	B	C
ATOM	3863	CE2 TRP B 244	22.206	87.617	41.527	1.00	18.45	B	C
ATOM	3864	CE3 TRP B 244	20.989	87.775	43.622	1.00	18.90	B	C
ATOM	3865	CD1 TRP B 244	24.321	87.924	42.184	1.00	18.57	B	C
ATOM	3866	NE1 TRP B 244	23.506	87.694	41.097	1.00	17.92	B	N
ATOM	3867	CZ2 TRP B 244	21.029	87.398	40.803	1.00	17.47	B	C
ATOM	3868	CZ3 TRP B 244	19.818	87.558	42.902	1.00	18.34	B	C
ATOM	3869	CH2 TRP B 244	19.847	87.371	41.504	1.00	17.51	B	C
ATOM	3870	C TRP B 244	22.845	90.409	44.850	1.00	16.58	B	C
ATOM	3871	O TRP B 244	22.616	91.102	43.859	1.00	17.56	B	O
ATOM	3872	N LEU B 245	21.937	90.180	45.796	1.00	15.30	B	N
ATOM	3873	CA LEU B 245	20.599	90.749	45.707	1.00	15.38	B	C
ATOM	3874	CB LEU B 245	19.746	90.306	46.900	1.00	14.42	B	C
ATOM	3875	CG LEU B 245	18.287	90.782	46.894	1.00	12.51	B	C
ATOM	3876	CD1 LEU B 245	17.536	90.163	45.723	1.00	15.01	B	C
ATOM	3877	CD2 LEU B 245	17.618	90.397	48.215	1.00	15.46	B	C
ATOM	3878	C LEU B 245	20.648	92.270	45.660	1.00	15.93	B	C
ATOM	3879	O LEU B 245	19.895	92.901	44.916	1.00	11.84	B	O
ATOM	3880	N GLU B 246	21.534	92.865	46.454	1.00	16.60	B	N
ATOM	3881	CA GLU B 246	21.636	94.317	46.480	1.00	17.29	B	C
ATOM	3882	CB GLU B 246	22.496	94.782	47.658	1.00	18.17	B	C
ATOM	3883	CG GLU B 246	21.896	94.455	49.020	1.00	19.87	B	C
ATOM	3884	CD GLU B 246	22.776	94.908	50.176	1.00	21.82	B	C
ATOM	3885	OE1 GLU B 246	24.001	94.687	50.101	1.00	23.59	B	O
ATOM	3886	OE2 GLU B 246	22.244	95.471	51.161	1.00	18.84	B	O
ATOM	3887	C GLU B 246	22.213	94.819	45.171	1.00	19.10	B	C
ATOM	3888	O GLU B 246	21.866	95.905	44.711	1.00	18.10	B	O
ATOM	3889	N ARG B 247	23.082	94.016	44.564	1.00	20.90	B	N
ATOM	3890	CA ARG B 247	23.694	94.384	43.296	1.00	21.36	B	C
ATOM	3891	CB ARG B 247	24.819	93.407	42.945	1.00	23.57	B	C
ATOM	3892	CG ARG B 247	25.698	93.843	41.780	1.00	28.81	B	C
ATOM	3893	CD ARG B 247	26.796	92.813	41.516	1.00	31.64	B	C
ATOM	3894	NE ARG B 247	27.648	92.622	42.688	1.00	33.01	B	N
ATOM	3895	CZ ARG B 247	27.953	91.437	43.214	1.00	34.15	B	C
ATOM	3896	NH1 ARG B 247	27.475	90.319	42.678	1.00	32.31	B	N

Figure 7QQQ

ATOM	3897	NH2 ARG B 247	28.742	91.372	44.281	1.00	32.59	B	N
ATOM	3898	C ARG B 247	22.612	94.369	42.218	1.00	21.28	B	C
ATOM	3899	O ARG B 247	22.613	95.212	41.319	1.00	18.68	B	O
ATOM	3900	N GLN B 248	21.689	93.411	42.316	1.00	19.88	B	N
ATOM	3901	CA GLN B 248	20.587	93.310	41.359	1.00	18.33	B	C
ATOM	3902	CB GLN B 248	19.778	92.027	41.586	1.00	16.87	B	C
ATOM	3903	CG GLN B 248	20.458	90.749	41.119	1.00	17.30	B	C
ATOM	3904	CD GLN B 248	20.794	90.768	39.631	1.00	21.87	B	C
ATOM	3905	OE1 GLN B 248	19.946	91.077	38.790	1.00	23.30	B	O
ATOM	3906	NE2 GLN B 248	22.032	90.423	39.304	1.00	24.03	B	N
ATOM	3907	C GLN B 248	19.670	94.518	41.528	1.00	17.34	B	C
ATOM	3908	O GLN B 248	19.166	95.071	40.550	1.00	16.87	B	O
ATOM	3909	N ALA B 249	19.451	94.917	42.777	1.00	15.06	B	N
ATOM	3910	CA ALA B 249	18.598	96.069	43.059	1.00	17.68	B	C
ATOM	3911	CB ALA B 249	18.435	96.240	44.557	1.00	14.89	B	C
ATOM	3912	C ALA B 249	19.210	97.332	42.449	1.00	16.19	B	C
ATOM	3913	O ALA B 249	18.509	98.166	41.878	1.00	15.71	B	O
ATOM	3914	N LYS B 250	20.523	97.466	42.578	1.00	15.67	B	N
ATOM	3915	CA LYS B 250	21.221	98.625	42.039	1.00	16.75	B	C
ATOM	3916	CB LYS B 250	22.686	98.599	42.493	1.00	20.71	B	C
ATOM	3917	CG LYS B 250	23.555	99.725	41.952	1.00	24.70	B	C
ATOM	3918	CD LYS B 250	23.089	101.093	42.425	1.00	29.48	B	C
ATOM	3919	CE LYS B 250	24.028	102.180	41.914	1.00	34.06	B	C
ATOM	3920	NZ LYS B 250	23.548	103.549	42.249	1.00	35.09	B	N
ATOM	3921	C LYS B 250	21.137	98.633	40.514	1.00	16.02	B	C
ATOM	3922	O LYS B 250	20.910	99.672	39.899	1.00	16.61	B	O
ATOM	3923	N GLU B 251	21.300	97.464	39.907	1.00	16.92	B	N
ATOM	3924	CA GLU B 251	21.256	97.366	38.457	1.00	16.87	B	C
ATOM	3925	CB GLU B 251	21.789	96.009	38.000	1.00	17.15	B	C
ATOM	3926	CG GLU B 251	21.913	95.902	36.492	1.00	19.76	B	C
ATOM	3927	CD GLU B 251	22.195	94.495	36.030	1.00	21.03	B	C
ATOM	3928	OE1 GLU B 251	22.812	93.728	36.796	1.00	21.54	B	O
ATOM	3929	OE2 GLU B 251	21.813	94.159	34.891	1.00	23.50	B	O
ATOM	3930	C GLU B 251	19.864	97.561	37.868	1.00	18.30	B	C
ATOM	3931	O GLU B 251	19.696	98.297	36.895	1.00	18.23	B	O
ATOM	3932	N TRP B 252	18.865	96.918	38.464	1.00	17.41	B	N
ATOM	3933	CA TRP B 252	17.509	96.997	37.939	1.00	17.31	B	C
ATOM	3934	CB TRP B 252	16.868	95.610	37.973	1.00	16.21	B	C
ATOM	3935	CG TRP B 252	17.639	94.610	37.197	1.00	16.40	B	C
ATOM	3936	CD2 TRP B 252	17.650	94.459	35.775	1.00	17.43	B	C
ATOM	3937	CE2 TRP B 252	18.546	93.412	35.475	1.00	17.08	B	C
ATOM	3938	CE3 TRP B 252	16.988	95.107	34.723	1.00	20.12	B	C
ATOM	3939	CD1 TRP B 252	18.505	93.677	37.690	1.00	18.25	B	C
ATOM	3940	NE1 TRP B 252	19.053	92.954	36.662	1.00	17.57	B	N
ATOM	3941	CZ2 TRP B 252	18.799	92.996	34.167	1.00	16.27	B	C
ATOM	3942	CZ3 TRP B 252	17.239	94.691	33.416	1.00	18.36	B	C
ATOM	3943	CH2 TRP B 252	18.137	93.646	33.153	1.00	18.85	B	C
ATOM	3944	C TRP B 252	16.555	98.000	38.565	1.00	20.68	B	C
ATOM	3945	O TRP B 252	15.631	98.468	37.896	1.00	23.26	B	O
ATOM	3946	N LEU B 253	16.762	98.333	39.833	1.00	20.19	B	N
ATOM	3947	CA LEU B 253	15.878	99.279	40.508	1.00	22.15	B	C
ATOM	3948	CB LEU B 253	15.392	98.680	41.832	1.00	19.99	B	C
ATOM	3949	CG LEU B 253	14.796	97.269	41.748	1.00	20.08	B	C
ATOM	3950	CD1 LEU B 253	14.520	96.731	43.149	1.00	15.94	B	C
ATOM	3951	CD2 LEU B 253	13.521	97.299	40.918	1.00	20.16	B	C
ATOM	3952	C LEU B 253	16.588	100.602	40.766	1.00	25.98	B	C
ATOM	3953	O LEU B 253	15.971	101.573	41.213	1.00	28.88	B	O
ATOM	3954	N LYS B 254	17.887	100.631	40.478	1.00	28.33	B	N

Figure 7RRR

ATOM	3955	CA	LYS	B	254	18.713	101.822	40.684	1.00	32.00	B	C
ATOM	3956	CB	LYS	B	254	18.210	102.985	39.818	1.00	33.97	B	C
ATOM	3957	CG	LYS	B	254	17.844	102.597	38.388	1.00	37.77	B	C
ATOM	3958	CD	LYS	B	254	18.983	101.890	37.661	1.00	38.80	B	C
ATOM	3959	CE	LYS	B	254	18.544	101.453	36.265	1.00	41.63	B	C
ATOM	3960	NZ	LYS	B	254	19.608	100.705	35.535	1.00	41.49	B	N
ATOM	3961	C	LYS	B	254	18.677	102.214	42.162	1.00	32.29	B	C
ATOM	3962	O	LYS	B	254	18.716	103.399	42.511	1.00	32.23	B	O
ATOM	3963	N	LEU	B	255	18.603	101.201	43.022	1.00	31.24	B	N
ATOM	3964	CA	LEU	B	255	18.560	101.397	44.469	1.00	34.52	B	C
ATOM	3965	CB	LEU	B	255	17.250	100.844	45.039	1.00	34.04	B	C
ATOM	3966	CG	LEU	B	255	15.917	101.437	44.584	1.00	36.59	B	C
ATOM	3967	CD1	LEU	B	255	14.795	100.596	45.162	1.00	35.66	B	C
ATOM	3968	CD2	LEU	B	255	15.791	102.888	45.036	1.00	36.85	B	C
ATOM	3969	C	LEU	B	255	19.727	100.667	45.132	1.00	35.40	B	C
ATOM	3970	O	LEU	B	255	20.326	99.794	44.473	1.00	34.56	B	O
ATOM	3971	OXT	LEU	B	255	20.014	100.959	46.310	1.00	38.02	B	O
ATOM	3992	C2	INH	E	1	13.974	93.547	34.196	1.00	21.79	E	C
ATOM	3993	O11	INH	E	1	13.261	94.464	33.777	1.00	21.09	E	O
ATOM	3994	N3	INH	E	1	14.165	93.379	35.564	1.00	20.44	E	N
ATOM	3995	C7	INH	E	1	13.557	94.278	36.569	1.00	20.49	E	C
ATOM	3996	C8	INH	E	1	12.019	94.237	36.759	1.00	24.92	E	C
ATOM	3997	C10	INH	E	1	11.708	94.941	38.091	1.00	25.12	E	C
ATOM	3998	C9	INH	E	1	11.452	92.810	36.842	1.00	26.68	E	C
ATOM	3999	C4	INH	E	1	14.957	92.363	36.018	1.00	19.38	E	C
ATOM	4000	N16	INH	E	1	15.217	92.064	37.221	1.00	20.22	E	N
ATOM	4001	N15	INH	E	1	16.020	90.988	37.236	1.00	18.99	E	N
ATOM	4002	C23	INH	E	1	16.484	90.354	38.489	1.00	18.33	E	C
ATOM	4003	C24	INH	E	1	15.792	88.946	38.541	1.00	19.18	E	C
ATOM	4004	C29	INH	E	1	14.344	88.784	38.535	1.00	19.84	E	C
ATOM	4005	C30	INH	E	1	13.446	89.896	38.512	1.00	20.83	E	C
ATOM	4006	C31	INH	E	1	12.035	89.694	38.503	1.00	22.55	E	C
ATOM	4007	C32	INH	E	1	11.503	88.377	38.513	1.00	24.46	E	C
ATOM	4008	C33	INH	E	1	12.376	87.256	38.536	1.00	23.50	E	C
ATOM	4009	C28	INH	E	1	13.783	87.448	38.549	1.00	21.97	E	C
ATOM	4010	C27	INH	E	1	14.636	86.315	38.572	1.00	21.05	E	C
ATOM	4011	C26	INH	E	1	16.045	86.483	38.584	1.00	19.47	E	C
ATOM	4012	C25	INH	E	1	16.617	87.782	38.567	1.00	22.25	E	C
ATOM	4013	C14	INH	E	1	16.294	90.592	35.978	1.00	15.83	E	C
ATOM	4014	C17	INH	E	1	17.178	89.405	35.585	1.00	16.67	E	C
ATOM	4015	C22	INH	E	1	18.577	89.438	35.898	1.00	19.23	E	C
ATOM	4016	C21	INH	E	1	19.395	88.340	35.554	1.00	18.31	E	C
ATOM	4017	N20	INH	E	1	18.850	87.251	34.923	1.00	19.45	E	N
ATOM	4018	C19	INH	E	1	17.516	87.188	34.607	1.00	18.95	E	C
ATOM	4019	C18	INH	E	1	16.650	88.261	34.930	1.00	20.05	E	C
ATOM	4020	C5	INH	E	1	15.629	91.408	35.147	1.00	16.08	E	C
ATOM	4021	C6	INH	E	1	15.419	91.604	33.697	1.00	18.68	E	C
ATOM	4022	O13	INH	E	1	15.959	90.832	32.910	1.00	18.22	E	O
ATOM	4023	N1	INH	E	1	14.594	92.661	33.309	1.00	20.12	E	N
ATOM	4024	C12	INH	E	1	14.373	92.853	31.870	1.00	19.38	E	C
ATOM	4025	C2	INH	F	1	15.229	56.504	36.336	1.00	19.66	F	C
ATOM	4026	O11	INH	F	1	15.872	55.553	35.883	1.00	19.27	F	O
ATOM	4027	N3	INH	F	1	15.347	56.832	37.680	1.00	18.37	F	N
ATOM	4028	C7	INH	F	1	16.244	56.066	38.574	1.00	21.01	F	C
ATOM	4029	C8	INH	F	1	17.632	56.714	38.844	1.00	22.14	F	C
ATOM	4030	C10	INH	F	1	18.576	56.443	37.657	1.00	27.02	F	C
ATOM	4031	C9	INH	F	1	18.283	56.135	40.116	1.00	26.97	F	C
ATOM	4032	C4	INH	F	1	14.636	57.891	38.181	1.00	20.15	F	C

Figure 7SSS

ATOM	4033	N16 INH F	1	14.628	58.344	39.361	1.00	18.70	F	N
ATOM	4034	N15 INH F	1	13.787	59.404	39.418	1.00	20.10	F	N
ATOM	4035	C23 INH F	1	13.574	60.201	40.652	1.00	16.99	F	C
ATOM	4036	C24 INH F	1	14.177	61.615	40.365	1.00	16.25	F	C
ATOM	4037	C29 INH F	1	15.574	61.787	40.020	1.00	16.89	F	C
ATOM	4038	C30 INH F	1	16.491	60.678	39.950	1.00	17.51	F	C
ATOM	4039	C31 INH F	1	17.854	60.879	39.603	1.00	14.32	F	C
ATOM	4040	C32 INH F	1	18.324	62.192	39.315	1.00	19.70	F	C
ATOM	4041	C33 INH F	1	17.437	63.304	39.377	1.00	18.92	F	C
ATOM	4042	C28 INH F	1	16.071	63.112	39.727	1.00	19.84	F	C
ATOM	4043	C27 INH F	1	15.198	64.232	39.783	1.00	19.07	F	C
ATOM	4044	C26 INH F	1	13.829	64.056	40.129	1.00	19.02	F	C
ATOM	4045	C25 INH F	1	13.322	62.761	40.417	1.00	19.18	F	C
ATOM	4046	C14 INH F	1	13.224	59.615	38.219	1.00	20.53	F	C
ATOM	4047	C17 INH F	1	12.214	60.722	37.880	1.00	21.41	F	C
ATOM	4048	C22 INH F	1	10.902	60.683	38.443	1.00	24.07	F	C
ATOM	4049	C21 INH F	1	9.981	61.718	38.139	1.00	24.54	F	C
ATOM	4050	N20 INH F	1	10.356	62.748	37.310	1.00	24.94	F	N
ATOM	4051	C19 INH F	1	11.609	62.812	36.753	1.00	22.24	F	C
ATOM	4052	C18 INH F	1	12.564	61.805	37.024	1.00	22.59	F	C
ATOM	4053	C5 INH F	1	13.722	58.699	37.372	1.00	19.26	F	C
ATOM	4054	C6 INH F	1	13.620	58.311	35.947	1.00	19.59	F	C
ATOM	4055	O13 INH F	1	12.881	58.941	35.211	1.00	18.89	F	O
ATOM	4056	N1 INH F	1	14.371	57.239	35.521	1.00	18.86	F	N
ATOM	4057	C12 INH F	1	14.267	56.869	34.104	1.00	22.90	F	C
ATOM	4058	OH2 TIP S	1	26.694	70.185	39.535	1.00	10.43	S	O
ATOM	4059	OH2 TIP S	2	26.903	61.775	37.433	1.00	10.86	S	O
ATOM	4060	OH2 TIP S	3	35.118	64.928	45.661	1.00	9.77	S	O
ATOM	4061	OH2 TIP S	4	3.740	88.714	42.243	1.00	12.17	S	O
ATOM	4062	OH2 TIP S	5	-3.817	87.331	48.367	1.00	15.62	S	O
ATOM	4063	OH2 TIP S	6	16.515	80.411	54.861	1.00	15.64	S	O
ATOM	4064	OH2 TIP S	7	26.620	62.820	41.255	1.00	10.32	S	O
ATOM	4065	OH2 TIP S	8	3.173	81.112	41.277	1.00	12.87	S	O
ATOM	4066	OH2 TIP S	9	-5.009	77.145	39.859	1.00	14.54	S	O
ATOM	4067	OH2 TIP S	10	17.072	78.274	43.100	1.00	15.49	S	O
ATOM	4068	OH2 TIP S	11	11.094	82.014	54.953	1.00	13.66	S	O
ATOM	4069	OH2 TIP S	12	23.114	78.487	54.347	1.00	14.98	S	O
ATOM	4070	OH2 TIP S	13	20.046	86.513	47.218	1.00	13.55	S	O
ATOM	4071	OH2 TIP S	14	2.655	89.017	38.291	1.00	15.07	S	O
ATOM	4072	OH2 TIP S	15	9.228	70.350	55.121	1.00	12.46	S	O
ATOM	4073	OH2 TIP S	16	16.739	84.862	44.381	1.00	12.76	S	O
ATOM	4074	OH2 TIP S	17	25.567	61.078	39.581	1.00	14.41	S	O
ATOM	4075	OH2 TIP S	18	37.252	56.626	40.690	1.00	14.19	S	O
ATOM	4076	OH2 TIP S	19	18.275	89.911	32.191	1.00	17.34	S	O
ATOM	4077	OH2 TIP S	20	34.008	72.385	38.024	1.00	14.04	S	O
ATOM	4078	OH2 TIP S	21	-1.688	79.172	55.257	1.00	19.38	S	O
ATOM	4079	OH2 TIP S	22	22.366	80.667	29.821	1.00	24.75	S	O
ATOM	4080	OH2 TIP S	23	12.380	75.091	59.029	1.00	20.05	S	O
ATOM	4081	OH2 TIP S	24	22.730	75.591	37.990	1.00	18.05	S	O
ATOM	4082	OH2 TIP S	25	-4.035	89.431	50.414	1.00	17.74	S	O
ATOM	4083	OH2 TIP S	26	4.573	89.940	39.949	1.00	14.11	S	O
ATOM	4084	OH2 TIP S	27	-1.906	87.737	40.180	1.00	17.43	S	O
ATOM	4085	OH2 TIP S	28	10.589	69.698	44.737	1.00	21.71	S	O
ATOM	4086	OH2 TIP S	29	25.201	95.439	52.148	1.00	16.83	S	O
ATOM	4087	OH2 TIP S	30	-8.367	85.700	23.246	1.00	15.98	S	O
ATOM	4088	OH2 TIP S	31	35.982	63.130	47.769	1.00	15.06	S	O
ATOM	4089	OH2 TIP S	32	21.296	70.481	54.804	1.00	19.30	S	O
ATOM	4090	OH2 TIP S	33	20.570	73.504	39.900	1.00	18.13	S	O

Figure 7TTT

ATOM	4091	OH2 TIP S	34	27.666	49.772	40.587	1.00	14.52	S	O
ATOM	4092	OH2 TIP S	35	9.700	74.285	55.955	1.00	16.17	S	O
ATOM	4093	OH2 TIP S	36	12.186	64.800	48.529	1.00	17.60	S	O
ATOM	4094	OH2 TIP S	37	13.322	82.831	56.421	1.00	13.15	S	O
ATOM	4095	OH2 TIP S	38	34.693	38.751	49.392	1.00	20.67	S	O
ATOM	4096	OH2 TIP S	39	-5.001	91.649	54.454	1.00	20.34	S	O
ATOM	4097	OH2 TIP S	40	15.761	67.824	58.496	1.00	21.39	S	O
ATOM	4098	OH2 TIP S	41	11.148	84.424	43.877	1.00	12.67	S	O
ATOM	4099	OH2 TIP S	42	37.642	61.003	46.856	1.00	17.93	S	O
ATOM	4100	OH2 TIP S	43	-4.373	79.173	41.785	1.00	16.71	S	O
ATOM	4101	OH2 TIP S	44	43.723	52.077	51.584	1.00	18.94	S	O
ATOM	4102	OH2 TIP S	45	20.137	97.010	51.207	1.00	22.61	S	O
ATOM	4103	OH2 TIP S	46	-4.186	94.391	33.354	1.00	24.48	S	O
ATOM	4104	OH2 TIP S	47	10.434	59.744	34.860	1.00	20.09	S	O
ATOM	4105	OH2 TIP S	48	11.296	69.306	47.243	1.00	20.43	S	O
ATOM	4106	OH2 TIP S	49	13.514	84.678	43.033	1.00	17.25	S	O
ATOM	4107	OH2 TIP S	50	27.738	70.677	61.698	1.00	22.46	S	O
ATOM	4108	OH2 TIP S	51	16.289	72.356	55.129	1.00	13.74	S	O
ATOM	4109	OH2 TIP S	52	-4.477	95.904	37.489	1.00	27.31	S	O
ATOM	4110	OH2 TIP S	53	34.164	74.207	35.803	1.00	16.19	S	O
ATOM	4111	OH2 TIP S	54	13.181	73.070	43.734	1.00	17.17	S	O
ATOM	4112	OH2 TIP S	55	-3.958	90.260	57.512	1.00	25.11	S	O
ATOM	4113	OH2 TIP S	56	30.703	42.485	54.038	1.00	21.11	S	O
ATOM	4114	OH2 TIP S	57	30.922	56.349	27.885	1.00	20.13	S	O
ATOM	4115	OH2 TIP S	58	14.662	74.601	55.720	1.00	22.72	S	O
ATOM	4116	OH2 TIP S	59	38.507	59.138	50.812	1.00	19.14	S	O
ATOM	4117	OH2 TIP S	60	42.816	67.475	28.609	1.00	20.79	S	O
ATOM	4118	OH2 TIP S	61	-6.400	95.465	43.206	1.00	18.25	S	O
ATOM	4119	OH2 TIP S	62	6.561	102.864	47.606	1.00	21.89	S	O
ATOM	4120	OH2 TIP S	63	35.560	76.427	29.271	1.00	20.86	S	O
ATOM	4121	OH2 TIP S	64	5.810	69.019	32.123	1.00	25.31	S	O
ATOM	4122	OH2 TIP S	65	30.127	54.457	33.804	1.00	22.20	S	O
ATOM	4123	OH2 TIP S	66	14.517	98.509	59.915	1.00	20.97	S	O
ATOM	4124	OH2 TIP S	67	20.921	81.728	55.488	1.00	15.12	S	O
ATOM	4125	OH2 TIP S	68	18.125	78.127	55.061	1.00	22.38	S	O
ATOM	4126	OH2 TIP S	69	4.578	106.224	53.414	1.00	23.88	S	O
ATOM	4127	OH2 TIP S	70	-13.259	95.151	42.403	1.00	22.02	S	O
ATOM	4128	OH2 TIP S	71	19.506	66.848	43.948	1.00	14.64	S	O
ATOM	4129	OH2 TIP S	72	20.492	58.168	29.357	1.00	24.23	S	O
ATOM	4130	OH2 TIP S	73	14.362	66.682	45.311	1.00	21.95	S	O
ATOM	4131	OH2 TIP S	74	37.948	64.500	49.199	1.00	22.89	S	O
ATOM	4132	OH2 TIP S	75	22.382	83.107	46.881	1.00	21.36	S	O
ATOM	4133	OH2 TIP S	76	2.257	71.707	33.743	1.00	22.26	S	O
ATOM	4134	OH2 TIP S	77	28.562	50.607	60.811	1.00	23.59	S	O
ATOM	4135	OH2 TIP S	78	12.908	55.269	54.605	1.00	22.04	S	O
ATOM	4136	OH2 TIP S	79	23.712	82.581	52.850	1.00	18.46	S	O
ATOM	4137	OH2 TIP S	80	6.000	64.702	50.376	1.00	22.24	S	O
ATOM	4138	OH2 TIP S	81	31.597	63.665	38.013	1.00	16.06	S	O
ATOM	4139	OH2 TIP S	82	3.204	101.393	39.851	1.00	18.09	S	O
ATOM	4140	OH2 TIP S	83	-3.695	88.746	62.013	1.00	24.84	S	O
ATOM	4141	OH2 TIP S	84	17.546	65.110	21.326	1.00	19.55	S	O
ATOM	4142	OH2 TIP S	85	26.824	59.347	62.759	1.00	26.30	S	O
ATOM	4143	OH2 TIP S	86	29.013	78.700	36.194	1.00	29.19	S	O
ATOM	4144	OH2 TIP S	87	-21.912	84.760	37.477	1.00	26.29	S	O
ATOM	4145	OH2 TIP S	88	37.659	49.564	54.905	1.00	21.54	S	O
ATOM	4146	OH2 TIP S	89	15.623	89.654	61.494	1.00	20.60	S	O
ATOM	4147	OH2 TIP S	90	46.913	73.636	27.864	1.00	24.09	S	O
ATOM	4148	OH2 TIP S	91	31.635	68.716	13.795	1.00	26.68	S	O

Figure 7UUU

ATOM	4149	OH2 TIP S	92	8.998	77.444	41.106	1.00	21.52	S	O
ATOM	4150	OH2 TIP S	93	19.563	69.848	56.803	1.00	23.78	S	O
ATOM	4151	OH2 TIP S	94	21.054	77.796	57.903	1.00	20.91	S	O
ATOM	4152	OH2 TIP S	95	39.029	70.195	42.752	1.00	19.43	S	O
ATOM	4153	OH2 TIP S	96	16.357	59.879	28.472	1.00	34.72	S	O
ATOM	4154	OH2 TIP S	97	6.277	85.600	21.656	1.00	18.30	S	O
ATOM	4155	OH2 TIP S	98	24.381	79.010	25.797	1.00	24.45	S	O
ATOM	4156	OH2 TIP S	99	-0.330	73.515	46.326	1.00	21.44	S	O
ATOM	4157	OH2 TIP S	100	19.996	63.469	21.479	1.00	20.07	S	O
ATOM	4158	OH2 TIP S	101	8.484	64.804	37.057	1.00	21.03	S	O
ATOM	4159	OH2 TIP S	102	18.063	76.067	36.689	1.00	20.99	S	O
ATOM	4160	OH2 TIP S	103	13.804	68.104	43.044	1.00	25.16	S	O
ATOM	4161	OH2 TIP S	104	10.019	70.355	50.629	1.00	23.39	S	O
ATOM	4162	OH2 TIP S	105	36.764	63.450	55.390	1.00	19.23	S	O
ATOM	4163	OH2 TIP S	106	-3.017	81.106	52.043	1.00	29.08	S	O
ATOM	4164	OH2 TIP S	107	33.894	73.874	51.602	1.00	22.56	S	O
ATOM	4165	OH2 TIP S	108	-10.562	79.620	30.884	1.00	25.06	S	O
ATOM	4166	OH2 TIP S	109	-3.241	87.887	16.187	1.00	22.20	S	O
ATOM	4167	OH2 TIP S	110	36.320	79.997	40.961	1.00	30.47	S	O
ATOM	4168	OH2 TIP S	111	12.536	71.003	57.233	1.00	20.62	S	O
ATOM	4169	OH2 TIP S	112	-0.943	95.950	34.554	1.00	25.68	S	O
ATOM	4170	OH2 TIP S	113	14.938	45.779	46.539	1.00	32.69	S	O
ATOM	4171	OH2 TIP S	114	44.541	72.750	24.779	1.00	28.57	S	O
ATOM	4172	OH2 TIP S	115	16.028	56.338	61.884	1.00	27.69	S	O
ATOM	4173	OH2 TIP S	116	25.959	84.862	44.510	1.00	22.27	S	O
ATOM	4174	OH2 TIP S	117	11.898	70.641	40.303	1.00	29.38	S	O
ATOM	4175	OH2 TIP S	118	20.005	82.352	45.778	1.00	23.69	S	O
ATOM	4176	OH2 TIP S	119	24.653	82.113	42.509	1.00	26.73	S	O
ATOM	4177	OH2 TIP S	120	39.045	70.244	55.129	1.00	26.86	S	O
ATOM	4178	OH2 TIP S	121	-14.861	94.263	30.815	1.00	25.70	S	O
ATOM	4179	OH2 TIP S	122	28.805	79.348	55.384	1.00	24.42	S	O
ATOM	4180	OH2 TIP S	123	34.409	78.819	35.704	1.00	22.51	S	O
ATOM	4181	OH2 TIP S	124	25.708	95.887	48.431	1.00	22.52	S	O
ATOM	4182	OH2 TIP S	125	20.200	81.715	43.235	1.00	28.28	S	O
ATOM	4183	OH2 TIP S	126	8.358	89.545	27.306	1.00	25.44	S	O
ATOM	4184	OH2 TIP S	127	28.451	42.142	55.370	1.00	32.71	S	O
ATOM	4185	OH2 TIP S	128	-1.140	72.535	35.377	1.00	25.03	S	O
ATOM	4186	OH2 TIP S	129	42.723	73.261	29.197	1.00	26.01	S	O
ATOM	4187	OH2 TIP S	130	0.475	106.754	43.565	1.00	35.60	S	O
ATOM	4188	OH2 TIP S	131	-8.799	81.517	47.238	1.00	30.82	S	O
ATOM	4189	OH2 TIP S	132	18.817	63.647	62.682	1.00	23.39	S	O
ATOM	4190	OH2 TIP S	133	-14.788	83.367	33.703	1.00	22.25	S	O
ATOM	4191	OH2 TIP S	134	28.486	47.289	40.587	1.00	26.04	S	O
ATOM	4192	OH2 TIP S	135	13.709	66.288	58.292	1.00	31.84	S	O
ATOM	4193	OH2 TIP S	136	4.869	72.011	43.934	1.00	21.85	S	O
ATOM	4194	OH2 TIP S	137	-19.103	77.442	35.205	1.00	29.80	S	O
ATOM	4195	OH2 TIP S	138	20.407	79.490	35.831	1.00	35.16	S	O
ATOM	4196	OH2 TIP S	139	10.860	84.010	22.443	1.00	27.02	S	O
ATOM	4197	OH2 TIP S	140	0.151	101.506	60.922	1.00	25.88	S	O
ATOM	4198	OH2 TIP S	141	31.584	47.279	41.254	1.00	23.80	S	O
ATOM	4199	OH2 TIP S	142	38.066	70.701	25.990	1.00	19.24	S	O
ATOM	4200	OH2 TIP S	143	44.977	72.631	31.204	1.00	23.78	S	O
ATOM	4201	OH2 TIP S	144	10.719	65.231	40.054	1.00	26.38	S	O
ATOM	4202	OH2 TIP S	145	7.475	91.297	29.034	1.00	27.02	S	O
ATOM	4203	OH2 TIP S	146	37.874	61.748	52.268	1.00	29.73	S	O
ATOM	4204	OH2 TIP S	147	-5.574	93.894	53.509	1.00	23.66	S	O
ATOM	4205	OH2 TIP S	148	17.820	78.905	36.654	1.00	28.79	S	O
ATOM	4206	OH2 TIP S	149	29.549	83.050	48.881	1.00	26.52	S	O

Figure 7VVV

ATOM	4207	OH2 TIP S 150	-10.366	100.932	54.067	1.00	20.68	S	O
ATOM	4208	OH2 TIP S 151	30.504	64.646	60.794	1.00	28.37	S	O
ATOM	4209	OH2 TIP S 152	49.012	70.756	24.772	1.00	31.55	S	O
ATOM	4210	OH2 TIP S 153	30.846	45.257	57.188	1.00	31.72	S	O
ATOM	4211	OH2 TIP S 154	43.180	59.055	25.923	1.00	26.29	S	O
ATOM	4212	OH2 TIP S 155	22.523	66.585	65.647	1.00	32.96	S	O
ATOM	4213	OH2 TIP S 156	2.253	106.632	56.997	1.00	37.06	S	O
ATOM	4214	OH2 TIP S 157	21.987	90.927	36.214	1.00	24.25	S	O
ATOM	4215	OH2 TIP S 158	24.995	45.779	50.248	1.00	28.19	S	O
ATOM	4216	OH2 TIP S 159	24.701	87.274	52.417	1.00	25.41	S	O
ATOM	4217	OH2 TIP S 160	19.481	54.793	61.669	1.00	24.28	S	O
ATOM	4218	OH2 TIP S 161	5.052	66.267	52.559	1.00	20.50	S	O
ATOM	4219	OH2 TIP S 162	24.083	47.425	48.238	1.00	32.20	S	O
ATOM	4220	OH2 TIP S 163	50.567	67.161	31.028	1.00	21.83	S	O
ATOM	4221	OH2 TIP S 164	15.358	64.805	23.213	1.00	24.49	S	O
ATOM	4222	OH2 TIP S 165	-1.913	91.256	42.961	1.00	21.23	S	O
ATOM	4223	OH2 TIP S 166	32.576	60.552	40.991	1.00	24.61	S	O
ATOM	4224	OH2 TIP S 167	5.829	70.768	57.525	1.00	22.41	S	O
ATOM	4225	OH2 TIP S 168	6.357	83.074	62.946	1.00	20.77	S	O
ATOM	4226	OH2 TIP S 169	28.962	85.053	47.200	1.00	36.42	S	O
ATOM	4227	OH2 TIP S 170	22.828	55.785	37.965	1.00	34.04	S	O
ATOM	4228	OH2 TIP S 171	9.903	109.166	51.388	1.00	29.79	S	O
ATOM	4229	OH2 TIP S 172	6.629	71.093	33.592	1.00	24.39	S	O
ATOM	4230	OH2 TIP S 173	24.428	80.747	55.009	1.00	17.22	S	O
ATOM	4231	OH2 TIP S 174	11.049	67.896	25.243	1.00	28.73	S	O
ATOM	4232	OH2 TIP S 175	26.525	84.672	50.346	1.00	22.59	S	O
ATOM	4233	OH2 TIP S 176	14.485	79.387	59.276	1.00	36.33	S	O
ATOM	4234	OH2 TIP S 178	-8.133	88.350	22.930	1.00	24.98	S	O
ATOM	4235	OH2 TIP S 179	11.008	89.282	26.933	1.00	26.38	S	O
ATOM	4236	OH2 TIP S 180	29.198	77.232	57.047	1.00	28.34	S	O
ATOM	4237	OH2 TIP S 181	42.985	63.495	21.723	1.00	32.93	S	O
ATOM	4238	OH2 TIP S 182	-2.488	92.239	26.844	1.00	31.41	S	O
ATOM	4239	OH2 TIP S 183	38.070	68.391	49.950	1.00	27.44	S	O
ATOM	4240	OH2 TIP S 184	3.026	87.382	17.697	1.00	24.17	S	O
ATOM	4241	OH2 TIP S 185	32.032	45.265	50.288	1.00	26.40	S	O
ATOM	4242	OH2 TIP S 186	39.904	55.447	42.177	1.00	25.49	S	O
ATOM	4243	OH2 TIP S 187	2.867	70.555	28.600	1.00	25.55	S	O
ATOM	4244	OH2 TIP S 188	28.784	77.898	31.205	1.00	27.78	S	O
ATOM	4245	OH2 TIP S 189	6.525	74.751	39.761	1.00	27.53	S	O
ATOM	4246	OH2 TIP S 190	-6.708	81.142	14.878	1.00	30.15	S	O
ATOM	4247	OH2 TIP S 191	23.949	87.249	38.410	1.00	26.94	S	O
ATOM	4248	OH2 TIP S 192	5.279	83.214	19.647	1.00	23.04	S	O
ATOM	4249	OH2 TIP S 193	7.787	93.915	65.832	1.00	34.56	S	O
ATOM	4250	OH2 TIP S 194	40.056	62.665	49.571	1.00	45.56	S	O
ATOM	4251	OH2 TIP S 195	17.005	83.158	42.309	1.00	26.09	S	O
ATOM	4252	OH2 TIP S 196	39.783	52.482	36.066	1.00	43.89	S	O
ATOM	4253	OH2 TIP S 197	21.034	85.408	34.631	1.00	21.18	S	O
ATOM	4254	OH2 TIP S 198	-2.760	93.994	35.518	1.00	32.71	S	O
ATOM	4255	OH2 TIP S 199	-14.876	77.201	34.781	1.00	29.91	S	O
ATOM	4256	OH2 TIP S 200	7.796	94.208	62.630	1.00	34.21	S	O
ATOM	4257	OH2 TIP S 201	-10.407	94.563	54.451	1.00	30.66	S	O
ATOM	4258	OH2 TIP S 202	19.132	85.088	38.251	1.00	26.36	S	O
ATOM	4259	OH2 TIP S 203	46.329	71.427	42.245	1.00	38.45	S	O
ATOM	4260	OH2 TIP S 204	38.151	49.728	42.054	1.00	23.90	S	O
ATOM	4261	OH2 TIP S 205	-16.881	92.357	37.722	1.00	29.19	S	O
ATOM	4262	OH2 TIP S 206	8.018	58.831	39.198	1.00	17.50	S	O
ATOM	4263	OH2 TIP S 207	23.689	77.990	32.612	1.00	37.51	S	O
ATOM	4264	OH2 TIP S 208	30.303	45.065	54.676	1.00	28.16	S	O

Figure 7WWW

ATOM	4265	OH2 TIP S 209	25.161	84.823	52.568	1.00	29.69	S	O
ATOM	4266	OH2 TIP S 210	23.062	78.703	21.684	1.00	26.51	S	O
ATOM	4267	OH2 TIP S 211	26.355	47.512	59.226	1.00	41.38	S	O
ATOM	4268	OH2 TIP S 212	12.364	73.834	56.670	1.00	17.58	S	O
ATOM	4269	OH2 TIP S 213	22.789	101.251	38.634	1.00	36.48	S	O
ATOM	4270	OH2 TIP S 214	30.444	78.274	42.812	1.00	18.27	S	O
ATOM	4271	OH2 TIP S 215	16.714	66.636	43.404	1.00	27.82	S	O
ATOM	4272	OH2 TIP S 216	11.118	110.647	48.883	1.00	41.21	S	O
ATOM	4273	OH2 TIP S 217	11.938	77.223	62.477	1.00	26.78	S	O
ATOM	4274	OH2 TIP S 218	21.348	98.318	46.299	1.00	22.54	S	O
ATOM	4275	OH2 TIP S 219	6.335	90.109	61.055	1.00	30.93	S	O
ATOM	4276	OH2 TIP S 220	16.849	58.092	31.635	1.00	27.78	S	O
ATOM	4277	OH2 TIP S 221	-14.977	98.435	36.110	1.00	29.94	S	O
ATOM	4278	OH2 TIP S 222	32.209	56.644	34.417	1.00	27.61	S	O
ATOM	4279	OH2 TIP S 223	38.616	69.338	19.683	1.00	35.00	S	O
ATOM	4280	OH2 TIP S 224	43.793	66.187	40.980	1.00	28.57	S	O
ATOM	4281	OH2 TIP S 225	25.865	49.291	48.912	1.00	22.19	S	O
ATOM	4282	OH2 TIP S 226	29.493	51.282	39.294	1.00	28.59	S	O
ATOM	4283	OH2 TIP S 227	8.557	68.734	23.715	1.00	32.38	S	O
ATOM	4284	OH2 TIP S 228	35.030	72.215	49.061	1.00	21.47	S	O
ATOM	4285	OH2 TIP S 229	-5.863	84.407	53.693	1.00	32.71	S	O
ATOM	4286	OH2 TIP S 230	8.409	66.822	21.454	1.00	32.17	S	O
ATOM	4287	OH2 TIP S 231	16.090	88.535	25.766	1.00	45.41	S	O
ATOM	4288	OH2 TIP S 232	5.228	66.001	48.372	1.00	33.03	S	O
ATOM	4289	OH2 TIP S 233	22.372	81.334	39.929	1.00	38.56	S	O
ATOM	4290	OH2 TIP S 234	-11.344	82.468	23.312	1.00	32.37	S	O
ATOM	4291	OH2 TIP S 235	-5.663	88.297	52.367	1.00	28.46	S	O
ATOM	4292	OH2 TIP S 236	13.616	74.457	18.786	1.00	42.18	S	O
ATOM	4293	OH2 TIP S 237	25.283	53.133	37.923	1.00	40.56	S	O
ATOM	4294	OH2 TIP S 238	8.026	53.624	54.137	1.00	31.65	S	O
ATOM	4295	OH2 TIP S 239	34.534	62.367	11.800	1.00	31.60	S	O
ATOM	4296	OH2 TIP S 240	1.831	56.099	44.184	1.00	34.48	S	O
ATOM	4297	OH2 TIP S 241	49.497	62.599	26.810	1.00	26.78	S	O
ATOM	4298	OH2 TIP S 242	-4.758	72.368	21.533	1.00	38.11	S	O
ATOM	4299	OH2 TIP S 243	-5.868	83.431	58.623	1.00	34.40	S	O
ATOM	4300	OH2 TIP S 244	29.156	81.797	37.170	1.00	39.60	S	O
ATOM	4301	OH2 TIP S 245	21.609	85.611	37.638	1.00	20.34	S	O
ATOM	4302	OH2 TIP S 246	-4.284	77.490	49.709	1.00	35.30	S	O
ATOM	4303	OH2 TIP S 247	31.807	48.664	61.432	1.00	43.66	S	O
ATOM	4304	OH2 TIP S 248	34.652	80.273	32.759	1.00	35.30	S	O
ATOM	4305	OH2 TIP S 249	-7.767	74.088	33.904	1.00	27.76	S	O
ATOM	4306	OH2 TIP S 250	-0.973	76.943	21.093	1.00	36.81	S	O
ATOM	4307	OH2 TIP S 251	17.520	103.841	50.759	1.00	37.13	S	O
ATOM	4308	OH2 TIP S 252	36.677	59.162	23.943	1.00	39.63	S	O
ATOM	4309	OH2 TIP S 253	-3.985	93.307	65.493	1.00	38.58	S	O
ATOM	4310	OH2 TIP S 254	26.053	53.836	34.851	1.00	37.31	S	O
ATOM	4311	OH2 TIP S 255	-7.010	78.156	28.377	1.00	28.40	S	O
ATOM	4312	OH2 TIP S 256	3.198	69.864	24.836	1.00	24.87	S	O
ATOM	4313	OH2 TIP S 257	-2.729	89.793	59.984	1.00	35.90	S	O
ATOM	4314	OH2 TIP S 259	12.874	62.780	21.486	1.00	40.71	S	O
ATOM	4315	OH2 TIP S 260	34.460	53.900	62.259	1.00	37.85	S	O
ATOM	4316	OH2 TIP S 261	8.524	50.114	40.677	1.00	29.93	S	O
ATOM	4317	OH2 TIP S 262	13.534	51.901	52.802	1.00	35.55	S	O
ATOM	4318	OH2 TIP S 263	-5.651	71.332	27.984	1.00	36.22	S	O
ATOM	4319	OH2 TIP S 264	10.884	74.117	37.648	1.00	23.87	S	O
ATOM	4320	OH2 TIP S 265	1.558	105.085	59.290	1.00	30.99	S	O
ATOM	4321	OH2 TIP S 267	22.855	87.241	54.244	1.00	39.85	S	O
ATOM	4322	OH2 TIP S 268	19.606	84.810	44.816	1.00	16.00	S	O

Figure 7XXX

ATOM	4323	OH2 TIP S 269	10.246	57.810	32.854	1.00	25.86	S	O
ATOM	4324	OH2 TIP S 270	-21.599	79.618	39.328	1.00	38.76	S	O
ATOM	4325	OH2 TIP S 271	35.642	69.502	46.091	1.00	25.61	S	O
ATOM	4326	OH2 TIP S 272	7.124	71.606	39.935	1.00	32.52	S	O
ATOM	4327	OH2 TIP S 274	37.219	53.704	29.589	1.00	30.49	S	O
ATOM	4328	OH2 TIP S 275	15.688	71.656	41.660	1.00	35.47	S	O
ATOM	4329	OH2 TIP S 276	18.771	98.089	33.479	1.00	36.76	S	O
ATOM	4330	OH2 TIP S 277	18.891	96.723	59.037	1.00	34.81	S	O
ATOM	4331	OH2 TIP S 279	20.582	96.155	32.990	1.00	36.72	S	O
ATOM	4332	OH2 TIP S 280	38.382	46.507	54.083	1.00	22.09	S	O
ATOM	4333	OH2 TIP S 284	33.499	78.469	29.422	1.00	42.54	S	O
ATOM	4334	OH2 TIP S 285	43.663	56.107	27.511	1.00	34.42	S	O
ATOM	4335	OH2 TIP S 286	35.122	60.670	20.712	1.00	39.38	S	O
ATOM	4336	OH2 TIP S 287	-1.725	96.233	63.363	1.00	35.97	S	O
ATOM	4337	OH2 TIP S 290	18.717	83.949	40.601	1.00	23.89	S	O
ATOM	4338	OH2 TIP S 291	38.772	45.987	46.680	1.00	36.15	S	O
ATOM	4339	OH2 TIP S 292	20.224	69.382	59.695	1.00	29.64	S	O
ATOM	4340	OH2 TIP S 293	8.282	78.199	63.669	1.00	36.59	S	O
ATOM	4341	OH2 TIP S 294	14.047	63.860	59.319	1.00	44.69	S	O
ATOM	4342	OH2 TIP S 297	-5.817	72.739	40.818	1.00	38.14	S	O
ATOM	4343	OH2 TIP S 298	26.321	64.439	12.786	1.00	45.15	S	O
ATOM	4344	OH2 TIP S 299	-6.944	102.099	43.661	1.00	28.91	S	O
ATOM	4345	OH2 TIP S 300	31.982	51.444	38.891	1.00	26.30	S	O
ATOM	4346	OH2 TIP S 301	22.179	61.349	17.217	1.00	28.54	S	O
ATOM	4347	OH2 TIP S 302	11.846	66.672	46.440	1.00	15.33	S	O
ATOM	4348	OH2 TIP S 303	16.579	61.209	61.822	1.00	25.84	S	O
ATOM	4349	OH2 TIP S 304	9.179	61.102	31.089	1.00	35.18	S	O
ATOM	4350	OH2 TIP S 306	43.337	56.983	38.631	1.00	31.17	S	O
ATOM	4351	OH2 TIP S 307	-4.729	79.060	14.954	1.00	29.45	S	O
ATOM	4352	OH2 TIP S 309	3.264	96.531	34.343	1.00	35.87	S	O
ATOM	4353	OH2 TIP S 310	33.597	56.115	32.020	1.00	38.28	S	O
ATOM	4354	OH2 TIP S 312	21.131	84.199	42.642	1.00	16.36	S	O
ATOM	4355	OH2 TIP S 314	13.289	90.298	22.035	1.00	37.86	S	O
ATOM	4356	OH2 TIP S 315	-21.318	88.597	32.650	1.00	31.68	S	O
ATOM	4357	OH2 TIP S 316	0.324	97.812	61.903	1.00	28.65	S	O
ATOM	4358	OH2 TIP S 317	15.681	48.773	53.561	1.00	32.11	S	O
ATOM	4359	OH2 TIP S 318	6.414	66.203	28.644	1.00	45.39	S	O
ATOM	4360	OH2 TIP S 320	21.877	45.789	57.051	1.00	37.88	S	O
ATOM	4361	OH2 TIP S 325	33.257	76.751	48.828	1.00	36.69	S	O
ATOM	4362	OH2 TIP S 326	-1.477	99.714	39.504	1.00	31.96	S	O
ATOM	4363	OH2 TIP S 327	7.083	107.442	40.232	1.00	34.50	S	O
ATOM	4364	OH2 TIP S 328	19.455	81.284	39.450	1.00	31.13	S	O
ATOM	4365	OH2 TIP S 330	18.928	59.678	27.698	1.00	23.64	S	O
ATOM	4366	OH2 TIP S 333	2.949	68.265	43.594	1.00	46.66	S	O
ATOM	4367	OH2 TIP S 334	-8.138	104.339	45.239	1.00	36.83	S	O
ATOM	4368	OH2 TIP S 336	3.891	58.458	48.159	1.00	40.09	S	O
ATOM	4369	OH2 TIP S 339	-11.491	79.098	22.692	1.00	31.58	S	O
ATOM	4370	OH2 TIP S 342	-3.605	77.350	56.479	1.00	33.40	S	O
ATOM	4371	OH2 TIP S 345	48.945	64.149	23.906	1.00	33.98	S	O
ATOM	4372	OH2 TIP S 348	17.597	50.879	59.000	1.00	46.70	S	O
ATOM	4373	OH2 TIP S 349	-19.548	99.216	33.850	1.00	31.30	S	O
ATOM	4374	OH2 TIP S 350	11.566	66.969	42.047	1.00	25.33	S	O
ATOM	4375	OH2 TIP S 353	24.674	43.379	42.738	1.00	46.49	S	O
ATOM	4376	OH2 TIP S 354	20.654	78.836	55.418	1.00	19.53	S	O
ATOM	4377	OH2 TIP S 357	17.254	91.782	60.031	1.00	23.92	S	O
ATOM	4378	OH2 TIP S 358	9.923	67.047	44.491	1.00	20.59	S	O
ATOM	4379	OH2 TIP S 359	36.952	66.998	45.661	1.00	21.28	S	O
ATOM	4380	OH2 TIP S 360	15.012	70.447	58.501	1.00	20.49	S	O

Figure 7YYY

ATOM	4381	OH2 TIP S 361	38.560	66.828	47.799	1.00	18.16	S	O
ATOM	4382	OH2 TIP S 362	12.567	70.351	43.331	1.00	21.60	S	O
ATOM	4383	OH2 TIP S 363	10.275	70.909	59.173	1.00	20.25	S	O
ATOM	4384	OH2 TIP S 365	-8.636	80.604	29.420	1.00	20.84	S	O
ATOM	4385	OH2 TIP S 366	27.535	82.312	43.508	1.00	25.30	S	O
ATOM	4386	OH2 TIP S 367	17.257	86.397	26.338	1.00	29.08	S	O
ATOM	4387	OH2 TIP S 368	4.358	55.280	44.796	1.00	40.14	S	O
ATOM	4388	OH2 TIP S 369	8.463	83.561	21.334	1.00	22.41	S	O
ATOM	4389	OH2 TIP S 370	-8.086	97.612	37.816	1.00	25.46	S	O
ATOM	4390	OH2 TIP S 371	12.843	74.928	39.116	1.00	31.70	S	O
ATOM	4391	OH2 TIP S 372	8.347	72.232	57.105	1.00	25.70	S	O
ATOM	4392	OH2 TIP S 373	-3.834	109.911	52.412	1.00	25.46	S	O
ATOM	4393	OH2 TIP S 374	38.734	67.042	43.751	1.00	25.21	S	O
ATOM	4394	OH2 TIP S 375	20.952	90.132	33.041	1.00	26.25	S	O
ATOM	4395	OH2 TIP S 376	21.122	98.404	49.083	1.00	21.33	S	O
ATOM	4396	OH2 TIP S 377	-12.795	97.771	42.948	1.00	27.19	S	O
ATOM	4397	OH2 TIP S 378	24.316	79.549	28.534	1.00	25.40	S	O
ATOM	4398	OH2 TIP S 379	27.736	88.375	45.434	1.00	29.24	S	O
ATOM	4399	OH2 TIP S 380	8.225	59.683	36.172	1.00	24.77	S	O
ATOM	4400	OH2 TIP S 381	37.450	53.227	35.003	1.00	32.48	S	O
ATOM	4401	OH2 TIP S 382	-10.586	84.900	22.199	1.00	30.47	S	O
ATOM	4402	OH2 TIP S 383	-15.137	95.854	40.707	1.00	25.76	S	O
ATOM	4403	OH2 TIP S 384	16.777	65.477	62.229	1.00	26.46	S	O
ATOM	4404	OH2 TIP S 385	28.839	86.168	50.617	1.00	33.26	S	O
ATOM	4405	OH2 TIP S 386	17.382	84.892	57.199	1.00	22.87	S	O
ATOM	4406	OH2 TIP S 387	27.000	52.190	62.926	1.00	27.15	S	O
ATOM	4407	OH2 TIP S 388	31.661	79.835	35.615	1.00	28.03	S	O
ATOM	4408	OH2 TIP S 389	-4.676	84.758	48.894	1.00	31.68	S	O
ATOM	4409	OH2 TIP S 390	-5.662	91.557	50.040	1.00	31.19	S	O
ATOM	4410	OH2 TIP S 391	23.487	83.965	44.473	1.00	28.65	S	O
ATOM	4411	OH2 TIP S 392	-6.441	88.875	58.175	1.00	33.33	S	O
ATOM	4412	OH2 TIP S 393	7.603	93.526	36.250	1.00	30.57	S	O
ATOM	4413	OH2 TIP S 394	49.203	72.825	26.301	1.00	24.46	S	O
ATOM	4414	OH2 TIP S 395	28.479	61.371	62.617	1.00	32.12	S	O
ATOM	4415	OH2 TIP S 397	-9.168	83.076	17.253	1.00	25.74	S	O
ATOM	4416	OH2 TIP S 398	16.075	88.965	63.990	1.00	30.49	S	O
ATOM	4417	OH2 TIP S 400	13.310	95.842	67.259	1.00	29.76	S	O
ATOM	4418	OH2 TIP S 401	5.918	66.938	33.592	1.00	31.14	S	O
ATOM	4419	OH2 TIP S 402	0.155	106.248	55.777	1.00	32.60	S	O
ATOM	4420	OH2 TIP S 403	6.110	92.248	62.655	1.00	27.95	S	O
ATOM	4421	OH2 TIP S 404	2.233	103.880	39.763	1.00	31.52	S	O
ATOM	4422	OH2 TIP S 405	25.694	98.715	48.972	1.00	29.93	S	O
ATOM	4423	OH2 TIP S 406	10.674	73.231	60.407	1.00	31.34	S	O
ATOM	4424	OH2 TIP S 409	51.882	66.157	29.120	1.00	26.96	S	O
ATOM	4425	OH2 TIP S 410	6.325	68.647	46.053	1.00	34.29	S	O
ATOM	4426	OH2 TIP S 412	39.391	64.285	54.825	1.00	28.64	S	O
ATOM	4427	OH2 TIP S 413	-2.620	73.079	47.858	1.00	31.55	S	O
ATOM	4428	OH2 TIP S 414	32.879	78.973	43.464	1.00	29.58	S	O
ATOM	4429	OH2 TIP S 415	-15.016	96.572	33.202	1.00	45.53	S	O
ATOM	4430	OH2 TIP S 416	39.377	75.743	32.551	1.00	30.17	S	O
ATOM	4431	OH2 TIP S 417	31.294	47.074	59.585	1.00	32.29	S	O
ATOM	4432	OH2 TIP S 418	20.908	99.085	60.072	1.00	33.84	S	O
ATOM	4433	OH2 TIP S 421	16.227	75.089	58.255	1.00	34.63	S	O
ATOM	4434	OH2 TIP S 423	9.515	68.766	41.162	1.00	31.09	S	O
ATOM	4435	OH2 TIP S 424	24.057	90.877	41.184	1.00	32.57	S	O
ATOM	4436	OH2 TIP S 425	-23.421	85.321	34.874	1.00	40.73	S	O
ATOM	4437	OH2 TIP S 426	-6.600	85.509	60.637	1.00	36.33	S	O
ATOM	4438	OH2 TIP S 429	18.068	74.274	39.152	1.00	28.30	S	O

Figure 7ZZZ

ATOM	4439	OH2 TIP S 430	0.216	72.088	29.280	1.00	34.77	S	O
ATOM	4440	OH2 TIP S 431	24.237	97.970	52.510	1.00	40.38	S	O
ATOM	4441	OH2 TIP S 433	16.496	61.776	20.380	1.00	31.74	S	O
ATOM	4442	OH2 TIP S 434	23.656	81.140	23.402	1.00	39.14	S	O
ATOM	4443	OH2 TIP S 435	45.512	70.376	23.767	1.00	38.06	S	O
ATOM	4444	OH2 TIP S 436	5.133	69.622	42.446	1.00	33.04	S	O
ATOM	4445	OH2 TIP S 440	23.692	79.457	34.661	1.00	40.65	S	O
ATOM	4446	OH2 TIP S 443	15.889	73.328	39.832	1.00	29.37	S	O
ATOM	4447	OH2 TIP S 444	-8.745	70.532	28.410	1.00	33.62	S	O
ATOM	4448	OH2 TIP S 446	32.260	78.506	13.999	1.00	45.13	S	O
ATOM	4449	OH2 TIP S 448	39.242	48.079	43.803	1.00	33.38	S	O
ATOM	4450	OH2 TIP S 449	34.559	75.768	22.405	1.00	31.84	S	O
ATOM	4451	OH2 TIP S 450	17.344	71.627	57.656	1.00	30.16	S	O
ATOM	4452	OH2 TIP S 453	17.850	55.704	64.074	1.00	41.95	S	O
ATOM	4453	OH2 TIP S 454	12.673	87.630	65.105	1.00	36.77	S	O
ATOM	4454	OH2 TIP S 455	18.393	73.689	58.998	1.00	35.69	S	O
ATOM	4455	OH2 TIP S 457	31.350	80.284	54.849	1.00	32.98	S	O
ATOM	4456	OH2 TIP S 459	31.948	64.117	63.134	1.00	33.16	S	O
ATOM	4457	OH2 TIP S 461	25.883	44.584	58.922	1.00	26.81	S	O
ATOM	4458	OH2 TIP S 462	15.411	75.744	38.970	1.00	38.18	S	O
ATOM	4459	OH2 TIP S 465	-6.694	85.996	51.462	1.00	39.03	S	O
ATOM	4460	OH2 TIP S 467	22.428	74.991	56.119	1.00	48.69	S	O
ATOM	4461	OH2 TIP S 472	7.409	68.343	43.765	1.00	40.63	S	O
ATOM	4462	OH2 TIP S 477	3.696	81.760	15.765	1.00	41.18	S	O
ATOM	4463	OH2 TIP S 478	36.353	75.696	51.865	1.00	40.40	S	O
ATOM	4464	OH2 TIP S 479	45.063	73.009	39.613	1.00	30.28	S	O
ATOM	4465	OH2 TIP S 480	35.167	68.155	64.949	1.00	36.43	S	O
ATOM	4466	OH2 TIP S 481	16.895	81.810	19.179	1.00	26.87	S	O
ATOM	4467	OH2 TIP S 482	9.338	64.581	19.670	1.00	47.45	S	O
ATOM	4468	OH2 TIP S 486	-4.142	97.143	32.076	1.00	40.89	S	O
ATOM	4469	OH2 TIP S 492	8.626	110.626	48.140	1.00	38.81	S	O
ATOM	4470	OH2 TIP S 493	10.344	52.396	54.552	1.00	40.72	S	O
ATOM	4471	OH2 TIP S 504	-6.927	90.936	52.736	1.00	32.58	S	O
ATOM	4472	OH2 TIP S 506	25.842	56.111	26.259	1.00	44.04	S	O
ATOM	4473	OH2 TIP S 511	-18.765	81.021	30.433	1.00	43.07	S	O
ATOM	4474	OH2 TIP S 514	-10.951	95.897	30.634	1.00	35.08	S	O
ATOM	4475	OH2 TIP S 515	18.239	91.555	29.988	1.00	35.01	S	O
ATOM	4476	OH2 TIP S 518	11.487	71.453	37.559	1.00	30.35	S	O
ATOM	4477	OH2 TIP S 519	-5.621	94.181	63.866	1.00	38.29	S	O
ATOM	4478	OH2 TIP S 522	-22.715	82.630	39.313	1.00	37.68	S	O
ATOM	4479	OH2 TIP S 523	13.832	92.634	28.634	1.00	42.35	S	O
ATOM	4480	OH2 TIP S 526	38.684	51.235	34.304	1.00	47.63	S	O
ATOM	4481	OH2 TIP S 528	36.575	81.337	36.652	1.00	30.20	S	O
ATOM	4482	OH2 TIP S 529	19.003	94.626	60.449	1.00	33.39	S	O
ATOM	4483	OH2 TIP S 532	45.213	64.758	44.484	1.00	43.40	S	O
ATOM	4484	OH2 TIP S 548	27.913	76.880	61.466	1.00	39.53	S	O
ATOM	4485	OH2 TIP S 550	-7.794	83.071	55.228	1.00	36.58	S	O
ATOM	4486	OH2 TIP S 551	6.856	87.791	20.410	1.00	45.36	S	O
ATOM	4487	OH2 TIP S 553	20.954	56.587	35.076	1.00	46.06	S	O
ATOM	4488	OH2 TIP S 559	6.709	95.476	37.577	1.00	37.67	S	O
ATOM	4489	OH2 TIP S 561	-5.111	70.585	43.095	1.00	36.29	S	O
ATOM	4490	OH2 TIP S 563	33.592	49.188	39.439	1.00	38.90	S	O
ATOM	4491	OH2 TIP S 567	24.268	93.456	38.866	1.00	41.73	S	O
ATOM	4492	OH2 TIP S 568	38.145	71.373	18.079	1.00	45.93	S	O
ATOM	4493	OH2 TIP S 570	10.042	104.897	57.893	1.00	35.94	S	O
ATOM	4494	OH2 TIP S 579	2.980	71.667	46.083	1.00	31.08	S	O
ATOM	4495	OH2 TIP S 588	42.992	48.494	46.292	1.00	42.53	S	O
ATOM	4496	OH2 TIP S 592	7.979	101.256	62.776	1.00	43.56	S	O

Figure 7AAAA

ATOM	4497	OH2 TIP S 596	40.729	51.604	40.374	1.00	44.86	S	O
ATOM	4498	OH2 TIP S 608	22.066	82.819	34.739	1.00	44.19	S	O
ATOM	4499	OH2 TIP S 612	23.253	56.890	32.646	1.00	37.91	S	O
ATOM	4500	OH2 TIP S 613	-4.126	71.281	39.257	1.00	40.53	S	O
ATOM	4501	OH2 TIP S 640	21.624	103.517	40.110	1.00	37.27	S	O
ATOM	4502	OH2 TIP S 648	5.614	70.703	52.258	1.00	52.65	S	O
ATOM	4503	OH2 TIP S 650	43.903	58.744	50.765	1.00	33.40	S	O
ATOM	4504	OH2 TIP S 655	-8.816	78.637	48.006	1.00	40.13	S	O
ATOM	4505	OH2 TIP S 656	-5.358	78.170	23.376	1.00	32.77	S	O
ATOM	4506	OH2 TIP S 657	3.160	70.067	31.591	1.00	35.22	S	O
ATOM	4507	OH2 TIP S 658	25.185	73.553	62.291	1.00	39.81	S	O
END									

Figure 8A

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REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 1.9 Å
REMARK starting r= 0.2224 free_r= 0.2451
REMARK final   r= 0.2185 free_r= 0.2440
REMARK rmsd bonds= 0.006037 rmsd angles= 1.31354
REMARK B rmsd for bonded mainchain atoms= 0.696 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 0.779 target= 2.0
REMARK B rmsd for angle mainchain atoms= 1.253 target= 2.0
REMARK B rmsd for angle sidechain atoms= 1.286 target= 2.5
REMARK target= mlf final wa= 0.882454 final rweight=0.367395
REMARK cycles= 1 coordinate steps= 150 B-factor steps= 100
REMARK sg= C222(1) a= 83.05 b= 112.82 c= 74.12 alpha= 90 gamma= 90
REMARK topology file 1 : MSI_CNX_TOPPAR:protein.top
REMARK topology file 2 : gll.top
REMARK topology file 3 : MSI_CNX_TOPPAR:water.top
REMARK topology file 4 : MSI_CNX_TOPPAR:ion.top
REMARK topology file 5 : uma.top
REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2 : gll.par
REMARK parameter file 3 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 4 : MSI_CNX_TOPPAR:ion.param
REMARK parameter file 5 : uma.par
REMARK molecular structure file: automatic
REMARK input coordinates: cns8_reb.pdb
REMARK reflection file= ../././mosflm_esrf/muri_trn_free_unique.fob
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.9
REMARK initial B-factor correction applied to fobs :
REMARK B11= 3.991 B22= -8.126 B33= 4.136
REMARK B12= 0.000 B13= 0.000 B23= 0.000
REMARK B-factor correction applied to coordinate array B: -0.648
REMARK bulk solvent: (Mask) density level= 0.373583 e/Å3, B-factor= 48.6342 Å2
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range: 27807 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0): 1265 ( 4.5 % )
REMARK number of reflections rejected: 0 ( 0.0 % )
REMARK total number of reflections used: 26542 ( 95.5 % )
REMARK number of reflections in working set: 25198 ( 90.6 % )
REMARK number of reflections in test set: 1344 ( 4.8 % )
CRYST1 83.050 112.820 74.120 90.00 90.00 90.00 C 2 2 21
REMARK FILENAME="refine.pdb"
REMARK DATE:Dec-11-2002 01:22:55 created by user: kemitl
REMARK Written by CNX VERSION:2000
ATOM 1 CB PRO A 20 59.140 10.232 37.959 1.00 42.27 C
ATOM 2 CG PRO A 20 60.118 9.060 37.995 1.00 42.63 C
ATOM 3 C PRO A 20 58.220 11.395 35.947 1.00 41.62 C
ATOM 4 O PRO A 20 59.154 12.042 35.457 1.00 41.55 O
ATOM 5 N PRO A 20 59.374 9.210 35.773 1.00 42.45 N
ATOM 6 CD PRO A 20 60.587 8.879 36.540 1.00 42.74 C
ATOM 7 CA PRO A 20 58.468 10.041 36.605 1.00 42.13 C
ATOM 8 N ARG A 21 56.961 11.820 35.938 1.00 40.77 N
ATOM 9 CA ARG A 21 56.586 13.100 35.341 1.00 39.90 C
ATOM 10 CB ARG A 21 55.792 12.875 34.053 1.00 41.14 C
ATOM 11 CG ARG A 21 55.782 11.436 33.550 1.00 43.27 C
ATOM 12 CD ARG A 21 54.592 10.646 34.098 1.00 44.85 C
ATOM 13 NE ARG A 21 54.310 9.479 33.264 1.00 46.30 N
ATOM 14 CZ ARG A 21 53.249 8.687 33.392 1.00 46.83 C

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Figure 8B

ATOM	15	NH1 ARG A 21	52.338	8.918	34.332	1.00	46.85	N
ATOM	16	NH2 ARG A 21	53.095	7.661	32.562	1.00	47.39	N
ATOM	17	C ARG A 21	55.738	13.891	36.327	1.00	38.37	C
ATOM	18	O ARG A 21	55.175	13.321	37.261	1.00	38.35	O
ATOM	19	N PRO A 22	55.635	15.217	36.134	1.00	36.71	N
ATOM	20	CD PRO A 22	56.249	16.056	35.092	1.00	36.55	C
ATOM	21	CA PRO A 22	54.834	16.026	37.053	1.00	35.10	C
ATOM	22	CB PRO A 22	54.956	17.441	36.483	1.00	35.61	C
ATOM	23	CG PRO A 22	55.312	17.226	35.048	1.00	36.83	C
ATOM	24	C PRO A 22	53.392	15.548	37.177	1.00	33.33	C
ATOM	25	O PRO A 22	52.737	15.204	36.193	1.00	33.12	O
ATOM	26	N THR A 23	52.926	15.513	38.416	1.00	31.31	N
ATOM	27	CA THR A 23	51.579	15.073	38.734	1.00	28.82	C
ATOM	28	CB THR A 23	51.528	14.500	40.165	1.00	28.86	C
ATOM	29	OG1 THR A 23	52.345	13.324	40.230	1.00	29.00	O
ATOM	30	CG2 THR A 23	50.096	14.159	40.556	1.00	27.97	C
ATOM	31	C THR A 23	50.615	16.241	38.626	1.00	27.22	C
ATOM	32	O THR A 23	50.767	17.256	39.307	1.00	26.28	O
ATOM	33	N VAL A 24	49.622	16.090	37.760	1.00	26.19	N
ATOM	34	CA VAL A 24	48.623	17.123	37.564	1.00	25.17	C
ATOM	35	CB VAL A 24	48.654	17.655	36.116	1.00	25.46	C
ATOM	36	CG1 VAL A 24	47.488	18.596	35.879	1.00	25.44	C
ATOM	37	CG2 VAL A 24	49.976	18.377	35.867	1.00	25.54	C
ATOM	38	C VAL A 24	47.222	16.617	37.870	1.00	24.64	C
ATOM	39	O VAL A 24	46.786	15.593	37.344	1.00	24.53	O
ATOM	40	N LEU A 25	46.525	17.350	38.728	1.00	23.92	N
ATOM	41	CA LEU A 25	45.163	17.004	39.093	1.00	23.77	C
ATOM	42	CB LEU A 25	44.910	17.283	40.579	1.00	23.48	C
ATOM	43	CG LEU A 25	43.437	17.288	41.007	1.00	24.15	C
ATOM	44	CD1 LEU A 25	42.844	15.882	40.865	1.00	23.60	C
ATOM	45	CD2 LEU A 25	43.322	17.779	42.455	1.00	24.84	C
ATOM	46	C LEU A 25	44.189	17.840	38.279	1.00	23.16	C
ATOM	47	O LEU A 25	44.368	19.048	38.143	1.00	22.71	O
ATOM	48	N VAL A 26	43.177	17.183	37.723	1.00	23.08	N
ATOM	49	CA VAL A 26	42.122	17.867	36.991	1.00	22.84	C
ATOM	50	CB VAL A 26	42.017	17.396	35.525	1.00	23.04	C
ATOM	51	CG1 VAL A 26	40.884	18.138	34.832	1.00	22.64	C
ATOM	52	CG2 VAL A 26	43.346	17.665	34.788	1.00	22.73	C
ATOM	53	C VAL A 26	40.852	17.482	37.764	1.00	23.16	C
ATOM	54	O VAL A 26	40.520	16.295	37.876	1.00	23.27	O
ATOM	55	N PHE A 27	40.172	18.485	38.315	1.00	22.82	N
ATOM	56	CA PHE A 27	38.967	18.277	39.117	1.00	23.33	C
ATOM	57	CB PHE A 27	39.168	18.865	40.518	1.00	23.65	C
ATOM	58	CG PHE A 27	37.902	18.924	41.340	1.00	24.66	C
ATOM	59	CD1 PHE A 27	37.456	17.805	42.042	1.00	24.66	C
ATOM	60	CD2 PHE A 27	37.125	20.078	41.360	1.00	24.42	C
ATOM	61	CE1 PHE A 27	36.253	17.834	42.748	1.00	24.95	C
ATOM	62	CE2 PHE A 27	35.917	20.119	42.063	1.00	24.93	C
ATOM	63	CZ PHE A 27	35.480	18.995	42.756	1.00	25.18	C
ATOM	64	C PHE A 27	37.687	18.879	38.547	1.00	23.64	C
ATOM	65	O PHE A 27	37.705	19.941	37.931	1.00	24.06	O
ATOM	66	N ASP A 28	36.575	18.187	38.773	1.00	23.82	N
ATOM	67	CA ASP A 28	35.253	18.651	38.358	1.00	23.43	C
ATOM	68	CB ASP A 28	34.957	18.343	36.885	1.00	23.14	C
ATOM	69	CG ASP A 28	33.602	18.896	36.443	1.00	23.57	C
ATOM	70	OD1 ASP A 28	32.893	18.244	35.646	1.00	23.23	O
ATOM	71	OD2 ASP A 28	33.239	19.998	36.903	1.00	24.14	O
ATOM	72	C ASP A 28	34.226	17.924	39.202	1.00	23.59	C

Figure 8C

ATOM	73	O	ASP A 28	34.540	16.928	39.856	1.00	23.62	O
ATOM	74	N	SER A 29	32.996	18.421	39.179	1.00	23.49	N
ATOM	75	CA	SER A 29	31.904	17.800	39.913	1.00	23.63	C
ATOM	76	CB	SER A 29	30.717	18.757	39.969	1.00	23.55	C
ATOM	77	OG	SER A 29	30.313	19.099	38.657	1.00	24.80	O
ATOM	78	C	SER A 29	31.500	16.508	39.186	1.00	23.67	C
ATOM	79	O	SER A 29	31.007	15.564	39.804	1.00	23.60	O
ATOM	80	N	GLY A 30	31.721	16.471	37.874	1.00	23.60	N
ATOM	81	CA	GLY A 30	31.377	15.294	37.096	1.00	23.98	C
ATOM	82	C	GLY A 30	32.306	15.003	35.934	1.00	23.76	C
ATOM	83	O	GLY A 30	33.529	14.975	36.099	1.00	24.03	O
ATOM	84	N	VAL A 31	31.737	14.799	34.747	1.00	23.50	N
ATOM	85	CA	VAL A 31	32.536	14.491	33.566	1.00	23.42	C
ATOM	86	CB	VAL A 31	31.753	13.579	32.565	1.00	24.04	C
ATOM	87	CG1	VAL A 31	31.393	12.253	33.231	1.00	24.26	C
ATOM	88	CG2	VAL A 31	30.484	14.277	32.079	1.00	24.22	C
ATOM	89	C	VAL A 31	33.054	15.712	32.792	1.00	23.39	C
ATOM	90	O	VAL A 31	33.948	15.576	31.960	1.00	22.93	O
ATOM	91	N	GLY A 32	32.503	16.892	33.062	1.00	23.03	N
ATOM	92	CA	GLY A 32	32.933	18.083	32.341	1.00	23.53	C
ATOM	93	C	GLY A 32	34.434	18.316	32.374	1.00	23.94	C
ATOM	94	O	GLY A 32	35.018	18.803	31.406	1.00	23.61	O
ATOM	95	N	GLY A 33	35.058	17.971	33.496	1.00	23.88	N
ATOM	96	CA	GLY A 33	36.492	18.149	33.641	1.00	24.00	C
ATOM	97	C	GLY A 33	37.272	17.468	32.537	1.00	24.04	C
ATOM	98	O	GLY A 33	38.347	17.921	32.174	1.00	24.11	O
ATOM	99	N	LEU A 34	36.720	16.389	31.990	1.00	24.29	N
ATOM	100	CA	LEU A 34	37.377	15.653	30.923	1.00	24.12	C
ATOM	101	CB	LEU A 34	36.586	14.384	30.589	1.00	24.26	C
ATOM	102	CG	LEU A 34	36.559	13.331	31.703	1.00	24.52	C
ATOM	103	CD1	LEU A 34	35.609	12.209	31.311	1.00	24.48	C
ATOM	104	CD2	LEU A 34	37.969	12.795	31.940	1.00	24.92	C
ATOM	105	C	LEU A 34	37.586	16.474	29.652	1.00	23.95	C
ATOM	106	O	LEU A 34	38.524	16.212	28.907	1.00	24.13	O
ATOM	107	N	SER A 35	36.729	17.461	29.394	1.00	23.76	N
ATOM	108	CA	SER A 35	36.916	18.270	28.191	1.00	24.21	C
ATOM	109	CB	SER A 35	35.694	19.159	27.909	1.00	23.45	C
ATOM	110	OG	SER A 35	35.531	20.175	28.886	1.00	23.98	O
ATOM	111	C	SER A 35	38.173	19.137	28.347	1.00	24.34	C
ATOM	112	O	SER A 35	38.910	19.357	27.383	1.00	24.46	O
ATOM	113	N	VAL A 36	38.416	19.611	29.564	1.00	24.57	N
ATOM	114	CA	VAL A 36	39.582	20.444	29.847	1.00	25.04	C
ATOM	115	CB	VAL A 36	39.445	21.160	31.211	1.00	25.08	C
ATOM	116	CG1	VAL A 36	40.682	22.024	31.482	1.00	25.12	C
ATOM	117	CG2	VAL A 36	38.188	22.020	31.212	1.00	25.41	C
ATOM	118	C	VAL A 36	40.824	19.572	29.863	1.00	25.61	C
ATOM	119	O	VAL A 36	41.869	19.935	29.313	1.00	25.10	O
ATOM	120	N	TYR A 37	40.704	18.407	30.494	1.00	26.15	N
ATOM	121	CA	TYR A 37	41.816	17.478	30.550	1.00	26.62	C
ATOM	122	CB	TYR A 37	41.427	16.236	31.367	1.00	26.04	C
ATOM	123	CG	TYR A 37	42.210	14.999	31.006	1.00	26.11	C
ATOM	124	CD1	TYR A 37	41.696	14.065	30.106	1.00	26.04	C
ATOM	125	CE1	TYR A 37	42.431	12.937	29.737	1.00	26.06	C
ATOM	126	CD2	TYR A 37	43.483	14.777	31.532	1.00	26.28	C
ATOM	127	CE2	TYR A 37	44.227	13.654	31.167	1.00	26.29	C
ATOM	128	CZ	TYR A 37	43.694	12.742	30.274	1.00	26.29	C
ATOM	129	OH	TYR A 37	44.414	11.627	29.922	1.00	26.91	O
ATOM	130	C	TYR A 37	42.243	17.072	29.139	1.00	27.35	C

Figure 8D

ATOM	131	O	TYR A 37	43.431	16.998	28.840	1.00	27.42	O
ATOM	132	N	ASP A 38	41.270	16.815	28.274	1.00	28.14	N
ATOM	133	CA	ASP A 38	41.554	16.403	26.906	1.00	29.79	C
ATOM	134	CB	ASP A 38	40.234	16.233	26.149	1.00	30.37	C
ATOM	135	CG	ASP A 38	40.355	15.321	24.945	1.00	31.87	C
ATOM	136	OD1	ASP A 38	41.285	14.487	24.904	1.00	32.39	O
ATOM	137	OD2	ASP A 38	39.495	15.427	24.039	1.00	32.89	O
ATOM	138	C	ASP A 38	42.472	17.411	26.200	1.00	30.27	C
ATOM	139	O	ASP A 38	43.406	17.018	25.500	1.00	30.51	O
ATOM	140	N	GLU A 39	42.213	18.702	26.399	1.00	30.88	N
ATOM	141	CA	GLU A 39	43.032	19.759	25.799	1.00	32.05	C
ATOM	142	CB	GLU A 39	42.367	21.123	25.992	1.00	32.93	C
ATOM	143	CG	GLU A 39	41.075	21.325	25.219	1.00	35.19	C
ATOM	144	CD	GLU A 39	41.310	21.703	23.766	1.00	36.77	C
ATOM	145	OE1	GLU A 39	40.316	21.968	23.056	1.00	38.63	O
ATOM	146	OE2	GLU A 39	42.481	21.743	23.333	1.00	37.13	O
ATOM	147	C	GLU A 39	44.417	19.786	26.447	1.00	32.29	C
ATOM	148	O	GLU A 39	45.435	19.941	25.772	1.00	31.60	O
ATOM	149	N	ILE A 40	44.454	19.640	27.765	1.00	32.60	N
ATOM	150	CA	ILE A 40	45.726	19.646	28.472	1.00	33.11	C
ATOM	151	CB	ILE A 40	45.517	19.585	29.998	1.00	32.73	C
ATOM	152	CG2	ILE A 40	46.867	19.494	30.709	1.00	32.95	C
ATOM	153	CG1	ILE A 40	44.750	20.824	30.468	1.00	32.28	C
ATOM	154	CD1	ILE A 40	44.401	20.809	31.947	1.00	32.55	C
ATOM	155	C	ILE A 40	46.623	18.486	28.040	1.00	33.95	C
ATOM	156	O	ILE A 40	47.806	18.688	27.753	1.00	33.92	O
ATOM	157	N	ARG A 41	46.072	17.275	27.982	1.00	34.92	N
ATOM	158	CA	ARG A 41	46.872	16.118	27.593	1.00	36.38	C
ATOM	159	CB	ARG A 41	46.114	14.805	27.815	1.00	36.95	C
ATOM	160	CG	ARG A 41	44.970	14.556	26.850	1.00	38.65	C
ATOM	161	CD	ARG A 41	44.714	13.060	26.676	1.00	40.05	C
ATOM	162	NE	ARG A 41	43.499	12.807	25.905	1.00	41.30	N
ATOM	163	CZ	ARG A 41	43.076	11.600	25.541	1.00	41.65	C
ATOM	164	NH1	ARG A 41	43.770	10.518	25.872	1.00	41.91	N
ATOM	165	NH2	ARG A 41	41.952	11.475	24.847	1.00	42.04	N
ATOM	166	C	ARG A 41	47.324	16.188	26.141	1.00	37.23	C
ATOM	167	O	ARG A 41	48.347	15.618	25.780	1.00	36.68	O
ATOM	168	N	HIS A 42	46.554	16.870	25.303	1.00	38.38	N
ATOM	169	CA	HIS A 42	46.935	16.990	23.905	1.00	39.98	C
ATOM	170	CB	HIS A 42	45.803	17.637	23.102	1.00	40.97	C
ATOM	171	CG	HIS A 42	46.096	17.757	21.640	1.00	42.48	C
ATOM	172	CD2	HIS A 42	45.580	17.104	20.571	1.00	43.17	C
ATOM	173	ND1	HIS A 42	47.032	18.634	21.137	1.00	43.19	N
ATOM	174	CE1	HIS A 42	47.080	18.519	19.821	1.00	43.48	C
ATOM	175	NE2	HIS A 42	46.208	17.597	19.452	1.00	43.37	N
ATOM	176	C	HIS A 42	48.207	17.836	23.822	1.00	40.26	C
ATOM	177	O	HIS A 42	49.053	17.625	22.955	1.00	40.52	O
ATOM	178	N	LEU A 43	48.341	18.783	24.747	1.00	40.38	N
ATOM	179	CA	LEU A 43	49.500	19.662	24.795	1.00	40.54	C
ATOM	180	CB	LEU A 43	49.087	21.020	25.372	1.00	40.84	C
ATOM	181	CG	LEU A 43	50.118	22.150	25.372	1.00	40.88	C
ATOM	182	CD1	LEU A 43	50.521	22.468	23.935	1.00	41.44	C
ATOM	183	CD2	LEU A 43	49.533	23.386	26.043	1.00	40.98	C
ATOM	184	C	LEU A 43	50.638	19.065	25.631	1.00	40.74	C
ATOM	185	O	LEU A 43	51.812	19.224	25.299	1.00	40.80	O
ATOM	186	N	LEU A 44	50.284	18.379	26.715	1.00	40.77	N
ATOM	187	CA	LEU A 44	51.263	17.759	27.615	1.00	40.94	C
ATOM	188	CB	LEU A 44	51.281	18.515	28.942	1.00	40.98	C

Figure 8E

ATOM	189	CG	LEU	A	44	51.493	20.023	28.814	1.00	40.82	C
ATOM	190	CD1	LEU	A	44	51.011	20.721	30.066	1.00	40.73	C
ATOM	191	CD2	LEU	A	44	52.964	20.307	28.550	1.00	41.26	C
ATOM	192	C	LEU	A	44	50.841	16.310	27.841	1.00	41.15	C
ATOM	193	O	LEU	A	44	50.325	15.955	28.903	1.00	41.15	O
ATOM	194	N	PRO	A	45	51.075	15.445	26.843	1.00	41.22	N
ATOM	195	CD	PRO	A	45	51.677	15.806	25.545	1.00	41.47	C
ATOM	196	CA	PRO	A	45	50.725	14.021	26.873	1.00	41.13	C
ATOM	197	CB	PRO	A	45	50.900	13.604	25.413	1.00	41.22	C
ATOM	198	CG	PRO	A	45	52.040	14.456	24.968	1.00	41.02	C
ATOM	199	C	PRO	A	45	51.418	13.044	27.826	1.00	41.10	C
ATOM	200	O	PRO	A	45	50.885	11.961	28.077	1.00	41.10	O
ATOM	201	N	ASP	A	46	52.576	13.400	28.373	1.00	40.74	N
ATOM	202	CA	ASP	A	46	53.280	12.454	29.240	1.00	40.25	C
ATOM	203	CB	ASP	A	46	54.765	12.400	28.854	1.00	41.61	C
ATOM	204	CG	ASP	A	46	54.974	12.058	27.391	1.00	43.12	C
ATOM	205	OD1	ASP	A	46	54.498	10.985	26.956	1.00	43.83	O
ATOM	206	OD2	ASP	A	46	55.618	12.863	26.676	1.00	44.38	O
ATOM	207	C	ASP	A	46	53.176	12.666	30.749	1.00	38.90	C
ATOM	208	O	ASP	A	46	53.812	11.941	31.511	1.00	39.20	O
ATOM	209	N	LEU	A	47	52.381	13.636	31.185	1.00	36.81	N
ATOM	210	CA	LEU	A	47	52.249	13.907	32.614	1.00	34.74	C
ATOM	211	CB	LEU	A	47	51.450	15.194	32.833	1.00	34.94	C
ATOM	212	CG	LEU	A	47	51.913	16.438	32.077	1.00	34.69	C
ATOM	213	CD1	LEU	A	47	51.018	17.604	32.434	1.00	35.28	C
ATOM	214	CD2	LEU	A	47	53.358	16.746	32.428	1.00	35.67	C
ATOM	215	C	LEU	A	47	51.564	12.774	33.364	1.00	33.31	C
ATOM	216	O	LEU	A	47	50.968	11.881	32.758	1.00	33.06	O
ATOM	217	N	HIS	A	48	51.678	12.800	34.689	1.00	31.91	N
ATOM	218	CA	HIS	A	48	51.013	11.808	35.530	1.00	30.54	C
ATOM	219	CB	HIS	A	48	51.794	11.524	36.814	1.00	30.57	C
ATOM	220	CG	HIS	A	48	51.017	10.729	37.822	1.00	30.87	C
ATOM	221	CD2	HIS	A	48	50.251	9.620	37.685	1.00	30.97	C
ATOM	222	ND1	HIS	A	48	50.986	11.050	39.163	1.00	31.68	N
ATOM	223	CE1	HIS	A	48	50.236	10.173	39.808	1.00	31.33	C
ATOM	224	NE2	HIS	A	48	49.778	9.295	38.933	1.00	31.22	N
ATOM	225	C	HIS	A	48	49.704	12.490	35.900	1.00	29.55	C
ATOM	226	O	HIS	A	48	49.668	13.331	36.802	1.00	29.03	O
ATOM	227	N	TYR	A	49	48.641	12.139	35.194	1.00	28.24	N
ATOM	228	CA	TYR	A	49	47.349	12.754	35.441	1.00	27.76	C
ATOM	229	CB	TYR	A	49	46.555	12.878	34.135	1.00	28.09	C
ATOM	230	CG	TYR	A	49	47.108	13.881	33.145	1.00	28.48	C
ATOM	231	CD1	TYR	A	49	47.890	13.471	32.066	1.00	28.86	C
ATOM	232	CE1	TYR	A	49	48.375	14.395	31.124	1.00	29.12	C
ATOM	233	CD2	TYR	A	49	46.823	15.242	33.275	1.00	28.88	C
ATOM	234	CE2	TYR	A	49	47.301	16.173	32.350	1.00	29.31	C
ATOM	235	CZ	TYR	A	49	48.075	15.741	31.275	1.00	29.63	C
ATOM	236	OH	TYR	A	49	48.527	16.665	30.353	1.00	29.75	O
ATOM	237	C	TYR	A	49	46.477	12.040	36.463	1.00	27.00	C
ATOM	238	O	TYR	A	49	46.433	10.808	36.533	1.00	26.57	O
ATOM	239	N	ILE	A	50	45.791	12.844	37.259	1.00	25.98	N
ATOM	240	CA	ILE	A	50	44.854	12.340	38.243	1.00	24.91	C
ATOM	241	CB	ILE	A	50	45.259	12.705	39.682	1.00	24.96	C
ATOM	242	CG2	ILE	A	50	44.167	12.253	40.654	1.00	23.79	C
ATOM	243	CG1	ILE	A	50	46.598	12.054	40.041	1.00	24.11	C
ATOM	244	CD1	ILE	A	50	47.213	12.622	41.313	1.00	24.92	C
ATOM	245	C	ILE	A	50	43.560	13.071	37.933	1.00	24.67	C
ATOM	246	O	ILE	A	50	43.536	14.305	37.900	1.00	24.39	O

Figure 8F

ATOM	247	N	TYR A 51	42.498	12.321	37.671	1.00	24.20	N
ATOM	248	CA	TYR A 51	41.205	12.933	37.413	1.00	24.34	C
ATOM	249	CB	TYR A 51	40.549	12.369	36.148	1.00	24.65	C
ATOM	250	CG	TYR A 51	39.285	13.123	35.766	1.00	25.11	C
ATOM	251	CD1	TYR A 51	38.018	12.626	36.076	1.00	25.28	C
ATOM	252	CE1	TYR A 51	36.860	13.369	35.793	1.00	25.75	C
ATOM	253	CD2	TYR A 51	39.366	14.376	35.157	1.00	25.76	C
ATOM	254	CE2	TYR A 51	38.220	15.122	34.867	1.00	25.82	C
ATOM	255	CZ	TYR A 51	36.974	14.620	35.189	1.00	26.04	C
ATOM	256	OH	TYR A 51	35.856	15.394	34.926	1.00	25.60	O
ATOM	257	C	TYR A 51	40.337	12.612	38.616	1.00	24.47	C
ATOM	258	O	TYR A 51	40.221	11.451	39.014	1.00	24.67	O
ATOM	259	N	ALA A 52	39.740	13.637	39.208	1.00	24.11	N
ATOM	260	CA	ALA A 52	38.878	13.425	40.363	1.00	23.89	C
ATOM	261	CB	ALA A 52	39.533	13.994	41.619	1.00	23.82	C
ATOM	262	C	ALA A 52	37.533	14.090	40.131	1.00	23.96	C
ATOM	263	O	ALA A 52	37.466	15.253	39.723	1.00	23.07	O
ATOM	264	N	PHE A 53	36.461	13.347	40.372	1.00	23.37	N
ATOM	265	CA	PHE A 53	35.132	13.906	40.208	1.00	23.51	C
ATOM	266	CB	PHE A 53	34.474	13.388	38.909	1.00	23.73	C
ATOM	267	CG	PHE A 53	34.310	11.889	38.838	1.00	24.04	C
ATOM	268	CD1	PHE A 53	33.054	11.309	39.007	1.00	23.82	C
ATOM	269	CD2	PHE A 53	35.398	11.066	38.559	1.00	24.45	C
ATOM	270	CE1	PHE A 53	32.882	9.929	38.895	1.00	24.38	C
ATOM	271	CE2	PHE A 53	35.242	9.679	38.445	1.00	24.39	C
ATOM	272	CZ	PHE A 53	33.978	9.111	38.614	1.00	24.35	C
ATOM	273	C	PHE A 53	34.276	13.625	41.444	1.00	23.79	C
ATOM	274	O	PHE A 53	34.305	12.528	42.013	1.00	22.86	O
ATOM	275	N	ASP A 54	33.533	14.642	41.868	1.00	23.79	N
ATOM	276	CA	ASP A 54	32.682	14.541	43.051	1.00	24.06	C
ATOM	277	CB	ASP A 54	32.563	15.916	43.714	1.00	23.89	C
ATOM	278	CG	ASP A 54	31.963	15.840	45.109	1.00	23.89	C
ATOM	279	OD1	ASP A 54	31.577	14.727	45.538	1.00	22.90	O
ATOM	280	OD2	ASP A 54	31.880	16.894	45.772	1.00	23.05	O
ATOM	281	C	ASP A 54	31.289	14.002	42.734	1.00	24.18	C
ATOM	282	O	ASP A 54	30.312	14.750	42.734	1.00	23.82	O
ATOM	283	N	ASN A 55	31.191	12.698	42.488	1.00	24.17	N
ATOM	284	CA	ASN A 55	29.905	12.103	42.170	1.00	25.09	C
ATOM	285	CB	ASN A 55	30.090	10.674	41.631	1.00	25.26	C
ATOM	286	CG	ASN A 55	30.731	9.737	42.639	1.00	25.36	C
ATOM	287	OD1	ASN A 55	31.791	10.028	43.201	1.00	24.79	O
ATOM	288	ND2	ASN A 55	30.092	8.592	42.864	1.00	25.74	N
ATOM	289	C	ASN A 55	28.970	12.110	43.376	1.00	25.56	C
ATOM	290	O	ASN A 55	27.770	11.915	43.226	1.00	25.79	O
ATOM	291	N	VAL A 56	29.520	12.362	44.561	1.00	25.66	N
ATOM	292	CA	VAL A 56	28.731	12.405	45.794	1.00	26.16	C
ATOM	293	CB	VAL A 56	29.642	12.231	47.043	1.00	26.47	C
ATOM	294	CG1	VAL A 56	28.888	12.614	48.320	1.00	26.82	C
ATOM	295	CG2	VAL A 56	30.112	10.785	47.140	1.00	26.75	C
ATOM	296	C	VAL A 56	27.930	13.704	45.950	1.00	26.34	C
ATOM	297	O	VAL A 56	26.779	13.683	46.395	1.00	26.27	O
ATOM	298	N	ALA A 57	28.528	14.831	45.576	1.00	25.69	N
ATOM	299	CA	ALA A 57	27.846	16.106	45.723	1.00	25.62	C
ATOM	300	CB	ALA A 57	28.721	17.072	46.509	1.00	25.61	C
ATOM	301	C	ALA A 57	27.399	16.740	44.405	1.00	25.80	C
ATOM	302	O	ALA A 57	26.813	17.820	44.406	1.00	25.99	O
ATOM	303	N	PHE A 58	27.675	16.079	43.284	1.00	25.66	N
ATOM	304	CA	PHE A 58	27.242	16.595	41.984	1.00	25.94	C

Figure 8G

ATOM	305	CB	PHE A 58	27.689	15.659	40.856	1.00	25.77	C
ATOM	306	CG	PHE A 58	27.101	16.006	39.517	1.00	26.33	C
ATOM	307	CD1	PHE A 58	27.725	16.933	38.684	1.00	26.01	C
ATOM	308	CD2	PHE A 58	25.892	15.445	39.112	1.00	26.14	C
ATOM	309	CE1	PHE A 58	27.152	17.300	37.467	1.00	26.79	C
ATOM	310	CE2	PHE A 58	25.308	15.807	37.893	1.00	27.07	C
ATOM	311	CZ	PHE A 58	25.938	16.735	37.071	1.00	27.22	C
ATOM	312	C	PHE A 58	25.714	16.601	42.045	1.00	26.23	C
ATOM	313	O	PHE A 58	25.123	15.651	42.555	1.00	26.27	O
ATOM	314	N	PRO A 59	25.053	17.645	41.507	1.00	26.87	N
ATOM	315	CD	PRO A 59	23.589	17.565	41.316	1.00	27.24	C
ATOM	316	CA	PRO A 59	25.591	18.836	40.838	1.00	27.09	C
ATOM	317	CB	PRO A 59	24.484	19.195	39.850	1.00	27.32	C
ATOM	318	CG	PRO A 59	23.257	18.898	40.647	1.00	27.45	C
ATOM	319	C	PRO A 59	25.902	19.993	41.788	1.00	27.44	C
ATOM	320	O	PRO A 59	25.197	20.214	42.776	1.00	26.87	O
ATOM	321	N	TYR A 60	26.968	20.725	41.476	1.00	28.08	N
ATOM	322	CA	TYR A 60	27.395	21.870	42.277	1.00	29.46	C
ATOM	323	CB	TYR A 60	28.873	22.182	41.988	1.00	28.52	C
ATOM	324	CG	TYR A 60	29.887	21.318	42.725	1.00	27.75	C
ATOM	325	CD1	TYR A 60	29.520	20.113	43.339	1.00	27.37	C
ATOM	326	CE1	TYR A 60	30.475	19.317	44.006	1.00	26.91	C
ATOM	327	CD2	TYR A 60	31.228	21.708	42.794	1.00	27.09	C
ATOM	328	CE2	TYR A 60	32.178	20.932	43.450	1.00	27.19	C
ATOM	329	CZ	TYR A 60	31.802	19.739	44.054	1.00	27.07	C
ATOM	330	OH	TYR A 60	32.758	18.982	44.698	1.00	25.80	O
ATOM	331	C	TYR A 60	26.539	23.119	41.991	1.00	30.92	C
ATOM	332	O	TYR A 60	26.389	23.993	42.849	1.00	30.67	O
ATOM	333	N	GLY A 61	25.981	23.190	40.785	1.00	33.00	N
ATOM	334	CA	GLY A 61	25.165	24.332	40.400	1.00	35.24	C
ATOM	335	C	GLY A 61	24.126	24.770	41.418	1.00	37.04	C
ATOM	336	O	GLY A 61	23.892	25.965	41.601	1.00	37.85	O
ATOM	337	N	GLU A 62	23.512	23.803	42.089	1.00	38.35	N
ATOM	338	CA	GLU A 62	22.479	24.069	43.088	1.00	39.52	C
ATOM	339	CB	GLU A 62	21.559	22.852	43.183	1.00	41.20	C
ATOM	340	CG	GLU A 62	22.340	21.562	43.450	1.00	43.11	C
ATOM	341	CD	GLU A 62	21.455	20.385	43.790	1.00	44.30	C
ATOM	342	OE1	GLU A 62	20.626	19.994	42.931	1.00	45.50	O
ATOM	343	OE2	GLU A 62	21.590	19.850	44.917	1.00	44.82	O
ATOM	344	C	GLU A 62	23.026	24.374	44.487	1.00	39.48	C
ATOM	345	O	GLU A 62	22.459	25.187	45.226	1.00	40.03	O
ATOM	346	N	LYS A 63	24.123	23.708	44.833	1.00	38.32	N
ATOM	347	CA	LYS A 63	24.772	23.827	46.135	1.00	37.54	C
ATOM	348	CB	LYS A 63	26.033	22.956	46.148	1.00	36.71	C
ATOM	349	CG	LYS A 63	25.795	21.494	45.761	1.00	36.22	C
ATOM	350	CD	LYS A 63	24.954	20.758	46.796	1.00	35.50	C
ATOM	351	CE	LYS A 63	24.888	19.257	46.509	1.00	34.57	C
ATOM	352	NZ	LYS A 63	24.287	18.933	45.180	1.00	33.47	N
ATOM	353	C	LYS A 63	25.130	25.233	46.623	1.00	37.13	C
ATOM	354	O	LYS A 63	25.354	26.153	45.833	1.00	37.17	O
ATOM	355	N	SER A 64	25.180	25.376	47.944	1.00	36.87	N
ATOM	356	CA	SER A 64	25.531	26.637	48.590	1.00	36.73	C
ATOM	357	CB	SER A 64	25.270	26.553	50.096	1.00	36.69	C
ATOM	358	OG	SER A 64	23.936	26.162	50.370	1.00	37.39	O
ATOM	359	C	SER A 64	27.017	26.869	48.360	1.00	36.81	C
ATOM	360	O	SER A 64	27.801	25.915	48.358	1.00	36.64	O
ATOM	361	N	GLU A 65	27.410	28.125	48.177	1.00	36.66	N
ATOM	362	CA	GLU A 65	28.813	28.439	47.947	1.00	36.97	C

Figure 8H

ATOM	363	CB	GLU A 65	28.985	29.926	47.611	1.00	38.23	C
ATOM	364	CG	GLU A 65	28.742	30.243	46.138	1.00	40.25	C
ATOM	365	CD	GLU A 65	28.841	31.730	45.815	1.00	42.02	C
ATOM	366	OE1	GLU A 65	29.763	32.403	46.336	1.00	43.02	O
ATOM	367	OE2	GLU A 65	28.006	32.223	45.023	1.00	43.06	O
ATOM	368	C	GLU A 65	29.702	28.050	49.122	1.00	36.16	C
ATOM	369	O	GLU A 65	30.831	27.606	48.917	1.00	36.24	O
ATOM	370	N	ALA A 66	29.198	28.202	50.345	1.00	35.06	N
ATOM	371	CA	ALA A 66	29.972	27.845	51.536	1.00	34.39	C
ATOM	372	CB	ALA A 66	29.191	28.190	52.794	1.00	34.26	C
ATOM	373	C	ALA A 66	30.317	26.348	51.522	1.00	33.80	C
ATOM	374	O	ALA A 66	31.420	25.943	51.903	1.00	33.49	O
ATOM	375	N	PHE A 67	29.367	25.528	51.087	1.00	32.84	N
ATOM	376	CA	PHE A 67	29.598	24.091	51.009	1.00	31.99	C
ATOM	377	CB	PHE A 67	28.308	23.339	50.657	1.00	31.83	C
ATOM	378	CG	PHE A 67	28.550	21.930	50.191	1.00	31.22	C
ATOM	379	CD1	PHE A 67	28.891	20.928	51.098	1.00	31.15	C
ATOM	380	CD2	PHE A 67	28.526	21.625	48.834	1.00	31.38	C
ATOM	381	CE1	PHE A 67	29.211	19.639	50.657	1.00	30.97	C
ATOM	382	CE2	PHE A 67	28.846	20.337	48.384	1.00	31.33	C
ATOM	383	CZ	PHE A 67	29.189	19.346	49.301	1.00	30.62	C
ATOM	384	C	PHE A 67	30.643	23.796	49.936	1.00	31.40	C
ATOM	385	O	PHE A 67	31.613	23.082	50.186	1.00	31.16	O
ATOM	386	N	ILE A 68	30.433	24.350	48.744	1.00	30.67	N
ATOM	387	CA	ILE A 68	31.338	24.139	47.618	1.00	30.11	C
ATOM	388	CB	ILE A 68	30.926	25.003	46.394	1.00	29.93	C
ATOM	389	CG2	ILE A 68	31.983	24.902	45.294	1.00	29.25	C
ATOM	390	CG1	ILE A 68	29.568	24.533	45.858	1.00	30.20	C
ATOM	391	CD1	ILE A 68	29.116	25.245	44.591	1.00	30.32	C
ATOM	392	C	ILE A 68	32.809	24.414	47.944	1.00	30.38	C
ATOM	393	O	ILE A 68	33.679	23.591	47.649	1.00	29.53	O
ATOM	394	N	VAL A 69	33.092	25.567	48.545	1.00	30.39	N
ATOM	395	CA	VAL A 69	34.470	25.907	48.886	1.00	30.68	C
ATOM	396	CB	VAL A 69	34.557	27.290	49.579	1.00	31.33	C
ATOM	397	CG1	VAL A 69	35.998	27.578	49.994	1.00	31.13	C
ATOM	398	CG2	VAL A 69	34.052	28.376	48.631	1.00	31.78	C
ATOM	399	C	VAL A 69	35.085	24.851	49.801	1.00	30.46	C
ATOM	400	O	VAL A 69	36.175	24.349	49.523	1.00	30.83	O
ATOM	401	N	GLU A 70	34.379	24.508	50.878	1.00	29.88	N
ATOM	402	CA	GLU A 70	34.869	23.518	51.834	1.00	30.07	C
ATOM	403	CB	GLU A 70	33.899	23.369	53.016	1.00	31.73	C
ATOM	404	CG	GLU A 70	33.763	24.597	53.925	1.00	35.37	C
ATOM	405	CD	GLU A 70	35.085	25.046	54.534	1.00	37.49	C
ATOM	406	OE1	GLU A 70	35.894	24.179	54.938	1.00	39.42	O
ATOM	407	OE2	GLU A 70	35.314	26.273	54.619	1.00	39.33	O
ATOM	408	C	GLU A 70	35.064	22.148	51.191	1.00	28.57	C
ATOM	409	O	GLU A 70	36.051	21.452	51.458	1.00	28.03	O
ATOM	410	N	ARG A 71	34.109	21.768	50.354	1.00	26.83	N
ATOM	411	CA	ARG A 71	34.140	20.478	49.677	1.00	25.52	C
ATOM	412	CB	ARG A 71	32.827	20.259	48.919	1.00	25.00	C
ATOM	413	CG	ARG A 71	32.717	18.924	48.195	1.00	24.55	C
ATOM	414	CD	ARG A 71	32.741	17.739	49.156	1.00	24.30	C
ATOM	415	NE	ARG A 71	32.481	16.490	48.437	1.00	24.43	N
ATOM	416	CZ	ARG A 71	32.569	15.278	48.973	1.00	24.76	C
ATOM	417	NH1	ARG A 71	32.915	15.130	50.248	1.00	24.34	N
ATOM	418	NH2	ARG A 71	32.321	14.210	48.227	1.00	24.54	N
ATOM	419	C	ARG A 71	35.320	20.345	48.722	1.00	24.66	C
ATOM	420	O	ARG A 71	36.044	19.352	48.769	1.00	24.09	O

Figure 8I

ATOM	421	N	VAL A 72	35.521	21.342	47.863	1.00	23.70	N
ATOM	422	CA	VAL A 72	36.622	21.279	46.909	1.00	23.69	C
ATOM	423	CB	VAL A 72	36.537	22.428	45.883	1.00	23.55	C
ATOM	424	CG1	VAL A 72	37.697	22.337	44.904	1.00	23.48	C
ATOM	425	CG2	VAL A 72	35.206	22.337	45.125	1.00	24.07	C
ATOM	426	C	VAL A 72	37.976	21.301	47.623	1.00	23.44	C
ATOM	427	O	VAL A 72	38.907	20.607	47.216	1.00	23.28	O
ATOM	428	N	VAL A 73	38.085	22.088	48.686	1.00	23.43	N
ATOM	429	CA	VAL A 73	39.326	22.139	49.451	1.00	23.42	C
ATOM	430	CB	VAL A 73	39.264	23.209	50.571	1.00	24.16	C
ATOM	431	CG1	VAL A 73	40.438	23.033	51.540	1.00	24.47	C
ATOM	432	CG2	VAL A 73	39.316	24.604	49.964	1.00	24.03	C
ATOM	433	C	VAL A 73	39.578	20.755	50.076	1.00	23.35	C
ATOM	434	O	VAL A 73	40.707	20.277	50.094	1.00	23.23	O
ATOM	435	N	ALA A 74	38.527	20.108	50.575	1.00	22.61	N
ATOM	436	CA	ALA A 74	38.679	18.782	51.179	1.00	22.36	C
ATOM	437	CB	ALA A 74	37.382	18.355	51.870	1.00	22.18	C
ATOM	438	C	ALA A 74	39.085	17.736	50.132	1.00	22.47	C
ATOM	439	O	ALA A 74	39.916	16.867	50.400	1.00	21.70	O
ATOM	440	N	ILE A 75	38.499	17.806	48.940	1.00	22.12	N
ATOM	441	CA	ILE A 75	38.857	16.845	47.911	1.00	22.33	C
ATOM	442	CB	ILE A 75	37.898	16.942	46.695	1.00	22.09	C
ATOM	443	CG2	ILE A 75	38.439	16.106	45.531	1.00	21.64	C
ATOM	444	CG1	ILE A 75	36.502	16.455	47.107	1.00	22.35	C
ATOM	445	CD1	ILE A 75	35.414	16.664	46.055	1.00	21.88	C
ATOM	446	C	ILE A 75	40.319	17.017	47.460	1.00	22.41	C
ATOM	447	O	ILE A 75	41.038	16.033	47.306	1.00	22.76	O
ATOM	448	N	VAL A 76	40.770	18.253	47.259	1.00	22.98	N
ATOM	449	CA	VAL A 76	42.157	18.464	46.831	1.00	22.84	C
ATOM	450	CB	VAL A 76	42.436	19.945	46.478	1.00	23.18	C
ATOM	451	CG1	VAL A 76	43.922	20.122	46.125	1.00	23.17	C
ATOM	452	CG2	VAL A 76	41.557	20.376	45.294	1.00	22.52	C
ATOM	453	C	VAL A 76	43.106	18.030	47.951	1.00	23.01	C
ATOM	454	O	VAL A 76	44.206	17.542	47.706	1.00	22.66	O
ATOM	455	N	THR A 77	42.672	18.207	49.190	1.00	23.25	N
ATOM	456	CA	THR A 77	43.482	17.802	50.329	1.00	23.42	C
ATOM	457	CB	THR A 77	42.804	18.220	51.640	1.00	23.36	C
ATOM	458	OG1	THR A 77	42.715	19.650	51.672	1.00	23.52	O
ATOM	459	CG2	THR A 77	43.604	17.737	52.851	1.00	23.84	C
ATOM	460	C	THR A 77	43.673	16.285	50.305	1.00	23.65	C
ATOM	461	O	THR A 77	44.781	15.784	50.526	1.00	23.58	O
ATOM	462	N	ALA A 78	42.592	15.562	50.024	1.00	23.68	N
ATOM	463	CA	ALA A 78	42.635	14.104	49.973	1.00	24.18	C
ATOM	464	CB	ALA A 78	41.222	13.534	49.835	1.00	24.04	C
ATOM	465	C	ALA A 78	43.505	13.632	48.817	1.00	24.10	C
ATOM	466	O	ALA A 78	44.275	12.683	48.960	1.00	23.96	O
ATOM	467	N	VAL A 79	43.389	14.288	47.667	1.00	23.77	N
ATOM	468	CA	VAL A 79	44.206	13.892	46.533	1.00	24.22	C
ATOM	469	CB	VAL A 79	43.880	14.714	45.264	1.00	23.88	C
ATOM	470	CG1	VAL A 79	44.830	14.320	44.145	1.00	23.31	C
ATOM	471	CG2	VAL A 79	42.434	14.466	44.834	1.00	23.95	C
ATOM	472	C	VAL A 79	45.683	14.086	46.874	1.00	24.69	C
ATOM	473	O	VAL A 79	46.505	13.204	46.612	1.00	24.55	O
ATOM	474	N	GLN A 80	46.005	15.234	47.465	1.00	25.87	N
ATOM	475	CA	GLN A 80	47.381	15.560	47.847	1.00	27.88	C
ATOM	476	CB	GLN A 80	47.449	16.934	48.524	1.00	28.24	C
ATOM	477	CG	GLN A 80	48.853	17.292	49.006	1.00	29.92	C
ATOM	478	CD	GLN A 80	48.950	18.668	49.616	1.00	30.55	C

Figure 8J

ATOM	479	OE1 GLN A 80	48.356	18.943	50.662	1.00	32.95	O
ATOM	480	NE2 GLN A 80	49.703	19.546	48.971	1.00	31.00	N
ATOM	481	C GLN A 80	47.991	14.521	48.781	1.00	29.34	C
ATOM	482	O GLN A 80	49.211	14.361	48.833	1.00	28.95	O
ATOM	483	N GLU A 81	47.143	13.824	49.527	1.00	30.79	N
ATOM	484	CA GLU A 81	47.617	12.799	50.445	1.00	32.53	C
ATOM	485	CB GLU A 81	46.525	12.443	51.453	1.00	34.55	C
ATOM	486	CG GLU A 81	46.442	13.408	52.606	1.00	37.85	C
ATOM	487	CD GLU A 81	47.735	13.457	53.399	1.00	39.61	C
ATOM	488	OE1 GLU A 81	48.230	12.381	53.806	1.00	41.29	O
ATOM	489	OE2 GLU A 81	48.258	14.569	53.618	1.00	41.33	O
ATOM	490	C GLU A 81	48.035	11.559	49.675	1.00	32.42	C
ATOM	491	O GLU A 81	48.974	10.865	50.066	1.00	32.74	O
ATOM	492	N ARG A 82	47.337	11.285	48.578	1.00	31.81	N
ATOM	493	CA ARG A 82	47.653	10.135	47.743	1.00	31.83	C
ATOM	494	CB ARG A 82	46.456	9.777	46.852	1.00	32.76	C
ATOM	495	CG ARG A 82	45.289	9.128	47.600	1.00	34.95	C
ATOM	496	CD ARG A 82	45.701	7.773	48.180	1.00	36.27	C
ATOM	497	NE ARG A 82	45.997	6.810	47.120	1.00	38.20	N
ATOM	498	CZ ARG A 82	45.085	6.042	46.528	1.00	38.36	C
ATOM	499	NH1 ARG A 82	43.815	6.116	46.899	1.00	38.95	N
ATOM	500	NH2 ARG A 82	45.441	5.212	45.554	1.00	38.87	N
ATOM	501	C ARG A 82	48.879	10.431	46.877	1.00	31.32	C
ATOM	502	O ARG A 82	49.741	9.568	46.690	1.00	31.21	O
ATOM	503	N TYR A 83	48.953	11.650	46.351	1.00	30.58	N
ATOM	504	CA TYR A 83	50.079	12.057	45.510	1.00	30.30	C
ATOM	505	CB TYR A 83	49.798	11.802	44.021	1.00	30.71	C
ATOM	506	CG TYR A 83	49.710	10.362	43.580	1.00	31.39	C
ATOM	507	CD1 TYR A 83	48.481	9.717	43.484	1.00	31.23	C
ATOM	508	CE1 TYR A 83	48.394	8.404	43.034	1.00	32.06	C
ATOM	509	CD2 TYR A 83	50.857	9.655	43.218	1.00	31.62	C
ATOM	510	CE2 TYR A 83	50.780	8.342	42.767	1.00	32.08	C
ATOM	511	CZ TYR A 83	49.550	7.724	42.677	1.00	32.19	C
ATOM	512	OH TYR A 83	49.471	6.423	42.229	1.00	32.58	O
ATOM	513	C TYR A 83	50.408	13.538	45.629	1.00	29.65	C
ATOM	514	O TYR A 83	49.520	14.385	45.519	1.00	29.22	O
ATOM	515	N PRO A 84	51.685	13.872	45.875	1.00	29.11	N
ATOM	516	CD PRO A 84	52.799	13.019	46.335	1.00	29.50	C
ATOM	517	CA PRO A 84	52.034	15.291	45.966	1.00	28.54	C
ATOM	518	CB PRO A 84	53.539	15.257	46.206	1.00	29.05	C
ATOM	519	CG PRO A 84	53.700	14.012	47.048	1.00	29.74	C
ATOM	520	C PRO A 84	51.681	15.839	44.579	1.00	27.78	C
ATOM	521	O PRO A 84	51.882	15.156	43.576	1.00	27.15	O
ATOM	522	N LEU A 85	51.151	17.053	44.518	1.00	27.35	N
ATOM	523	CA LEU A 85	50.741	17.626	43.239	1.00	26.90	C
ATOM	524	CB LEU A 85	49.323	18.192	43.361	1.00	26.62	C
ATOM	525	CG LEU A 85	48.230	17.259	43.889	1.00	26.34	C
ATOM	526	CD1 LEU A 85	46.923	18.030	44.073	1.00	26.18	C
ATOM	527	CD2 LEU A 85	48.049	16.102	42.926	1.00	26.09	C
ATOM	528	C LEU A 85	51.661	18.725	42.731	1.00	26.93	C
ATOM	529	O LEU A 85	52.148	19.540	43.501	1.00	26.47	O
ATOM	530	N ALA A 86	51.908	18.731	41.428	1.00	27.16	N
ATOM	531	CA ALA A 86	52.727	19.772	40.828	1.00	27.51	C
ATOM	532	CB ALA A 86	53.411	19.244	39.560	1.00	27.79	C
ATOM	533	C ALA A 86	51.775	20.922	40.484	1.00	27.57	C
ATOM	534	O ALA A 86	52.149	22.091	40.512	1.00	28.41	O
ATOM	535	N LEU A 87	50.524	20.581	40.189	1.00	27.71	N
ATOM	536	CA LEU A 87	49.530	21.582	39.824	1.00	27.37	C

Figure 8K

ATOM	537	CB	LEU	A	87	49.866	22.133	38.430	1.00	28.02	C
ATOM	538	CG	LEU	A	87	48.916	23.067	37.676	1.00	27.98	C
ATOM	539	CD1	LEU	A	87	49.721	23.825	36.624	1.00	28.10	C
ATOM	540	CD2	LEU	A	87	47.788	22.274	37.013	1.00	28.31	C
ATOM	541	C	LEU	A	87	48.134	20.972	39.817	1.00	27.07	C
ATOM	542	O	LEU	A	87	47.973	19.779	39.558	1.00	27.09	O
ATOM	543	N	ALA	A	88	47.132	21.797	40.101	1.00	26.70	N
ATOM	544	CA	ALA	A	88	45.745	21.353	40.106	1.00	26.24	C
ATOM	545	CB	ALA	A	88	45.218	21.285	41.528	1.00	26.54	C
ATOM	546	C	ALA	A	88	44.876	22.299	39.282	1.00	26.33	C
ATOM	547	O	ALA	A	88	45.040	23.522	39.326	1.00	25.93	O
ATOM	548	N	VAL	A	89	43.949	21.719	38.532	1.00	26.38	N
ATOM	549	CA	VAL	A	89	43.035	22.493	37.704	1.00	26.48	C
ATOM	550	CB	VAL	A	89	43.100	22.057	36.225	1.00	26.98	C
ATOM	551	CG1	VAL	A	89	42.184	22.945	35.388	1.00	26.51	C
ATOM	552	CG2	VAL	A	89	44.535	22.111	35.719	1.00	26.37	C
ATOM	553	C	VAL	A	89	41.605	22.285	38.174	1.00	26.45	C
ATOM	554	O	VAL	A	89	41.128	21.153	38.248	1.00	26.61	O
ATOM	555	N	VAL	A	90	40.930	23.375	38.513	1.00	26.03	N
ATOM	556	CA	VAL	A	90	39.543	23.300	38.928	1.00	26.42	C
ATOM	557	CB	VAL	A	90	39.195	24.432	39.916	1.00	26.37	C
ATOM	558	CG1	VAL	A	90	37.744	24.315	40.361	1.00	26.82	C
ATOM	559	CG2	VAL	A	90	40.123	24.355	41.137	1.00	26.76	C
ATOM	560	C	VAL	A	90	38.787	23.490	37.615	1.00	26.74	C
ATOM	561	O	VAL	A	90	38.371	24.601	37.288	1.00	26.48	O
ATOM	562	N	ALA	A	91	38.657	22.405	36.853	1.00	26.82	N
ATOM	563	CA	ALA	A	91	37.986	22.438	35.549	1.00	27.63	C
ATOM	564	CB	ALA	A	91	38.468	21.276	34.694	1.00	27.04	C
ATOM	565	C	ALA	A	91	36.488	22.356	35.758	1.00	28.11	C
ATOM	566	O	ALA	A	91	35.820	21.459	35.242	1.00	27.96	O
ATOM	567	N	CYS	A	92	35.979	23.327	36.509	1.00	29.18	N
ATOM	568	CA	CYS	A	92	34.579	23.399	36.882	1.00	30.48	C
ATOM	569	CB	CYS	A	92	34.402	22.573	38.163	1.00	30.27	C
ATOM	570	SG	CYS	A	92	32.819	22.659	38.984	1.00	30.88	S
ATOM	571	C	CYS	A	92	34.219	24.867	37.137	1.00	31.39	C
ATOM	572	O	CYS	A	92	34.730	25.473	38.075	1.00	31.00	O
ATOM	573	N	ASN	A	93	33.341	25.436	36.310	1.00	32.97	N
ATOM	574	CA	ASN	A	93	32.937	26.837	36.470	1.00	34.50	C
ATOM	575	CB	ASN	A	93	32.043	27.283	35.306	1.00	35.30	C
ATOM	576	CG	ASN	A	93	32.770	27.298	33.982	1.00	36.40	C
ATOM	577	OD1	ASN	A	93	32.983	26.251	33.360	1.00	37.59	O
ATOM	578	ND2	ASN	A	93	33.165	28.489	33.539	1.00	36.95	N
ATOM	579	C	ASN	A	93	32.218	27.128	37.784	1.00	35.02	C
ATOM	580	O	ASN	A	93	32.473	28.151	38.426	1.00	35.62	O
ATOM	581	N	THR	A	94	31.317	26.236	38.183	1.00	35.16	N
ATOM	582	CA	THR	A	94	30.567	26.418	39.420	1.00	36.16	C
ATOM	583	CB	THR	A	94	29.417	25.389	39.539	1.00	36.42	C
ATOM	584	OG1	THR	A	94	29.934	24.063	39.353	1.00	36.99	O
ATOM	585	CG2	THR	A	94	28.354	25.662	38.493	1.00	36.28	C
ATOM	586	C	THR	A	94	31.436	26.311	40.668	1.00	36.39	C
ATOM	587	O	THR	A	94	30.972	26.572	41.774	1.00	37.04	O
ATOM	588	N	ALA	A	95	32.695	25.928	40.501	1.00	36.62	N
ATOM	589	CA	ALA	A	95	33.587	25.803	41.654	1.00	37.07	C
ATOM	590	CB	ALA	A	95	34.093	24.363	41.780	1.00	36.87	C
ATOM	591	C	ALA	A	95	34.769	26.757	41.599	1.00	37.26	C
ATOM	592	O	ALA	A	95	35.183	27.291	42.626	1.00	37.43	O
ATOM	593	N	SER	A	96	35.304	26.978	40.405	1.00	37.85	N
ATOM	594	CA	SER	A	96	36.464	27.844	40.245	1.00	38.98	C

Figure 8L

ATOM	595	CB	SER A 96	36.701	28.167	38.772	1.00	38.43	C
ATOM	596	OG	SER A 96	37.534	27.193	38.172	1.00	39.50	O
ATOM	597	C	SER A 96	36.403	29.140	41.031	1.00	39.55	C
ATOM	598	O	SER A 96	37.056	29.276	42.064	1.00	40.03	O
ATOM	599	N	THR A 97	35.621	30.090	40.540	1.00	40.03	N
ATOM	600	CA	THR A 97	35.507	31.386	41.193	1.00	40.80	C
ATOM	601	CB	THR A 97	34.206	32.086	40.782	1.00	41.54	C
ATOM	602	OG1	THR A 97	33.079	31.351	41.283	1.00	43.65	O
ATOM	603	CG2	THR A 97	34.116	32.152	39.266	1.00	42.47	C
ATOM	604	C	THR A 97	35.580	31.334	42.718	1.00	40.13	C
ATOM	605	O	THR A 97	36.587	31.730	43.322	1.00	40.25	O
ATOM	606	N	VAL A 98	34.524	30.819	43.333	1.00	38.98	N
ATOM	607	CA	VAL A 98	34.440	30.749	44.783	1.00	37.63	C
ATOM	608	CB	VAL A 98	33.074	30.183	45.210	1.00	38.05	C
ATOM	609	CG1	VAL A 98	31.951	31.032	44.616	1.00	37.94	C
ATOM	610	CG2	VAL A 98	32.949	28.735	44.752	1.00	37.58	C
ATOM	611	C	VAL A 98	35.521	29.956	45.520	1.00	36.84	C
ATOM	612	O	VAL A 98	35.789	30.230	46.689	1.00	36.41	O
ATOM	613	N	SER A 99	36.145	28.989	44.848	1.00	35.65	N
ATOM	614	CA	SER A 99	37.149	28.136	45.491	1.00	34.62	C
ATOM	615	CB	SER A 99	36.982	26.688	45.001	1.00	34.67	C
ATOM	616	OG	SER A 99	35.697	26.177	45.311	1.00	35.45	O
ATOM	617	C	SER A 99	38.626	28.504	45.353	1.00	33.65	C
ATOM	618	O	SER A 99	39.443	28.075	46.165	1.00	33.61	O
ATOM	619	N	LEU A 100	38.974	29.278	44.335	1.00	32.41	N
ATOM	620	CA	LEU A 100	40.371	29.635	44.103	1.00	31.86	C
ATOM	621	CB	LEU A 100	40.476	30.501	42.844	1.00	31.39	C
ATOM	622	CG	LEU A 100	40.052	29.816	41.538	1.00	31.77	C
ATOM	623	CD1	LEU A 100	40.345	30.741	40.359	1.00	31.20	C
ATOM	624	CD2	LEU A 100	40.813	28.498	41.363	1.00	31.65	C
ATOM	625	C	LEU A 100	41.131	30.286	45.272	1.00	31.53	C
ATOM	626	O	LEU A 100	42.227	29.851	45.620	1.00	31.21	O
ATOM	627	N	PRO A 101	40.570	31.336	45.887	1.00	31.41	N
ATOM	628	CD	PRO A 101	39.378	32.122	45.526	1.00	31.74	C
ATOM	629	CA	PRO A 101	41.289	31.958	47.006	1.00	31.39	C
ATOM	630	CB	PRO A 101	40.312	33.027	47.488	1.00	31.54	C
ATOM	631	CG	PRO A 101	39.657	33.455	46.202	1.00	31.94	C
ATOM	632	C	PRO A 101	41.642	30.960	48.111	1.00	31.01	C
ATOM	633	O	PRO A 101	42.784	30.908	48.574	1.00	30.97	O
ATOM	634	N	ALA A 102	40.657	30.168	48.522	1.00	30.66	N
ATOM	635	CA	ALA A 102	40.845	29.180	49.579	1.00	30.28	C
ATOM	636	CB	ALA A 102	39.507	28.531	49.927	1.00	30.65	C
ATOM	637	C	ALA A 102	41.867	28.110	49.210	1.00	29.99	C
ATOM	638	O	ALA A 102	42.675	27.692	50.049	1.00	29.77	O
ATOM	639	N	LEU A 103	41.833	27.668	47.957	1.00	29.36	N
ATOM	640	CA	LEU A 103	42.764	26.650	47.483	1.00	28.42	C
ATOM	641	CB	LEU A 103	42.322	26.126	46.119	1.00	27.97	C
ATOM	642	CG	LEU A 103	41.031	25.302	46.119	1.00	27.49	C
ATOM	643	CD1	LEU A 103	40.535	25.118	44.684	1.00	26.76	C
ATOM	644	CD2	LEU A 103	41.286	23.957	46.790	1.00	26.64	C
ATOM	645	C	LEU A 103	44.184	27.189	47.378	1.00	28.66	C
ATOM	646	O	LEU A 103	45.145	26.503	47.722	1.00	27.90	O
ATOM	647	N	ARG A 104	44.315	28.424	46.911	1.00	28.64	N
ATOM	648	CA	ARG A 104	45.630	29.021	46.761	1.00	29.38	C
ATOM	649	CB	ARG A 104	45.540	30.265	45.875	1.00	29.44	C
ATOM	650	CG	ARG A 104	45.362	29.904	44.407	1.00	30.55	C
ATOM	651	CD	ARG A 104	44.967	31.091	43.526	1.00	31.09	C
ATOM	652	NE	ARG A 104	44.866	30.655	42.134	1.00	31.83	N

Figure 8M

ATOM	653	CZ	ARG A 104	44.212	31.307	41.175	1.00	31.39	C
ATOM	654	NH1	ARG A 104	43.585	32.442	41.439	1.00	31.47	N
ATOM	655	NH2	ARG A 104	44.180	30.810	39.950	1.00	30.99	N
ATOM	656	C	ARG A 104	46.261	29.346	48.104	1.00	29.24	C
ATOM	657	O	ARG A 104	47.477	29.439	48.213	1.00	28.87	O
ATOM	658	N	GLU A 105	45.430	29.507	49.126	1.00	29.80	N
ATOM	659	CA	GLU A 105	45.928	29.791	50.465	1.00	31.03	C
ATOM	660	CB	GLU A 105	44.831	30.424	51.328	1.00	32.41	C
ATOM	661	CG	GLU A 105	45.138	30.405	52.827	1.00	34.95	C
ATOM	662	CD	GLU A 105	46.373	31.213	53.190	1.00	36.39	C
ATOM	663	OE1	GLU A 105	46.929	30.992	54.294	1.00	37.63	O
ATOM	664	OE2	GLU A 105	46.785	32.072	52.379	1.00	37.49	O
ATOM	665	C	GLU A 105	46.408	28.503	51.129	1.00	30.44	C
ATOM	666	O	GLU A 105	47.463	28.476	51.761	1.00	31.06	O
ATOM	667	N	LYS A 106	45.648	27.428	50.972	1.00	29.73	N
ATOM	668	CA	LYS A 106	46.023	26.175	51.605	1.00	29.26	C
ATOM	669	CB	LYS A 106	44.806	25.245	51.723	1.00	29.20	C
ATOM	670	CG	LYS A 106	45.091	24.005	52.595	1.00	29.25	C
ATOM	671	CD	LYS A 106	43.840	23.174	52.882	1.00	28.92	C
ATOM	672	CE	LYS A 106	44.150	22.010	53.840	1.00	28.67	C
ATOM	673	NZ	LYS A 106	42.965	21.124	54.082	1.00	28.66	N
ATOM	674	C	LYS A 106	47.168	25.410	50.943	1.00	29.05	C
ATOM	675	O	LYS A 106	47.993	24.806	51.635	1.00	28.51	O
ATOM	676	N	PHE A 107	47.240	25.445	49.617	1.00	28.37	N
ATOM	677	CA	PHE A 107	48.270	24.690	48.925	1.00	28.51	C
ATOM	678	CB	PHE A 107	47.627	23.857	47.815	1.00	28.11	C
ATOM	679	CG	PHE A 107	46.516	22.973	48.308	1.00	27.86	C
ATOM	680	CD1	PHE A 107	45.185	23.346	48.147	1.00	27.53	C
ATOM	681	CD2	PHE A 107	46.805	21.795	48.991	1.00	27.75	C
ATOM	682	CE1	PHE A 107	44.156	22.560	48.665	1.00	27.08	C
ATOM	683	CE2	PHE A 107	45.781	20.997	49.514	1.00	27.41	C
ATOM	684	CZ	PHE A 107	44.457	21.383	49.350	1.00	27.01	C
ATOM	685	C	PHE A 107	49.443	25.476	48.376	1.00	28.85	C
ATOM	686	O	PHE A 107	49.337	26.669	48.096	1.00	28.61	O
ATOM	687	N	ASP A 108	50.566	24.781	48.225	1.00	29.16	N
ATOM	688	CA	ASP A 108	51.781	25.394	47.716	1.00	29.72	C
ATOM	689	CB	ASP A 108	52.925	25.180	48.700	1.00	29.47	C
ATOM	690	CG	ASP A 108	52.721	25.959	49.973	1.00	29.74	C
ATOM	691	OD1	ASP A 108	52.567	27.196	49.880	1.00	29.19	O
ATOM	692	OD2	ASP A 108	52.700	25.344	51.058	1.00	29.72	O
ATOM	693	C	ASP A 108	52.163	24.914	46.333	1.00	29.83	C
ATOM	694	O	ASP A 108	53.335	24.699	46.018	1.00	30.36	O
ATOM	695	N	PHE A 109	51.145	24.724	45.511	1.00	29.48	N
ATOM	696	CA	PHE A 109	51.345	24.342	44.128	1.00	29.36	C
ATOM	697	CB	PHE A 109	51.079	22.844	43.895	1.00	28.81	C
ATOM	698	CG	PHE A 109	49.781	22.348	44.454	1.00	29.18	C
ATOM	699	CD1	PHE A 109	48.568	22.679	43.851	1.00	29.09	C
ATOM	700	CD2	PHE A 109	49.772	21.525	45.579	1.00	28.19	C
ATOM	701	CE1	PHE A 109	47.363	22.194	44.364	1.00	29.20	C
ATOM	702	CE2	PHE A 109	48.580	21.037	46.099	1.00	28.87	C
ATOM	703	CZ	PHE A 109	47.368	21.369	45.492	1.00	28.19	C
ATOM	704	C	PHE A 109	50.358	25.232	43.397	1.00	28.99	C
ATOM	705	O	PHE A 109	49.331	25.626	43.956	1.00	28.79	O
ATOM	706	N	PRO A 110	50.673	25.600	42.153	1.00	29.04	N
ATOM	707	CD	PRO A 110	51.823	25.213	41.318	1.00	28.89	C
ATOM	708	CA	PRO A 110	49.751	26.467	41.419	1.00	29.02	C
ATOM	709	CB	PRO A 110	50.515	26.761	40.128	1.00	28.79	C
ATOM	710	CG	PRO A 110	51.326	25.525	39.929	1.00	29.59	C

Figure 8N

ATOM	711	C	PRO A 110	48.381	25.839	41.182	1.00	28.61	C
ATOM	712	O	PRO A 110	48.259	24.630	40.990	1.00	28.77	O
ATOM	713	N	VAL A 111	47.352	26.673	41.224	1.00	28.61	N
ATOM	714	CA	VAL A 111	45.989	26.215	41.002	1.00	28.17	C
ATOM	715	CB	VAL A 111	45.101	26.457	42.240	1.00	27.94	C
ATOM	716	CG1	VAL A 111	43.683	25.945	41.978	1.00	26.91	C
ATOM	717	CG2	VAL A 111	45.710	25.759	43.467	1.00	27.23	C
ATOM	718	C	VAL A 111	45.417	26.987	39.822	1.00	28.51	C
ATOM	719	O	VAL A 111	45.482	28.213	39.786	1.00	28.55	O
ATOM	720	N	VAL A 112	44.871	26.263	38.854	1.00	28.78	N
ATOM	721	CA	VAL A 112	44.284	26.892	37.679	1.00	29.08	C
ATOM	722	CB	VAL A 112	44.691	26.145	36.387	1.00	29.31	C
ATOM	723	CG1	VAL A 112	43.996	26.753	35.175	1.00	29.34	C
ATOM	724	CG2	VAL A 112	46.185	26.215	36.213	1.00	28.86	C
ATOM	725	C	VAL A 112	42.772	26.891	37.810	1.00	29.49	C
ATOM	726	O	VAL A 112	42.175	25.895	38.227	1.00	29.47	O
ATOM	727	N	GLY A 113	42.160	28.021	37.475	1.00	29.33	N
ATOM	728	CA	GLY A 113	40.719	28.132	37.551	1.00	29.94	C
ATOM	729	C	GLY A 113	40.136	28.309	36.164	1.00	30.66	C
ATOM	730	O	GLY A 113	40.873	28.407	35.180	1.00	29.81	O
ATOM	731	N	VAL A 114	38.809	28.351	36.088	1.00	31.45	N
ATOM	732	CA	VAL A 114	38.121	28.518	34.811	1.00	32.36	C
ATOM	733	CB	VAL A 114	37.509	27.204	34.315	1.00	32.77	C
ATOM	734	CG1	VAL A 114	38.587	26.138	34.165	1.00	32.86	C
ATOM	735	CG2	VAL A 114	36.425	26.756	35.276	1.00	33.24	C
ATOM	736	C	VAL A 114	36.983	29.521	34.894	1.00	32.64	C
ATOM	737	O	VAL A 114	36.178	29.505	35.833	1.00	33.94	O
ATOM	738	N	VAL A 115	36.932	30.409	33.913	1.00	31.91	N
ATOM	739	CA	VAL A 115	35.869	31.395	33.830	1.00	31.47	C
ATOM	740	CB	VAL A 115	36.368	32.820	34.173	1.00	32.15	C
ATOM	741	CG1	VAL A 115	36.717	32.908	35.652	1.00	33.28	C
ATOM	742	CG2	VAL A 115	37.579	33.169	33.330	1.00	32.44	C
ATOM	743	C	VAL A 115	35.409	31.348	32.375	1.00	30.19	C
ATOM	744	O	VAL A 115	36.202	31.048	31.483	1.00	29.34	O
ATOM	745	N	PRO A 116	34.122	31.615	32.121	1.00	29.68	N
ATOM	746	CD	PRO A 116	33.044	31.894	33.088	1.00	29.83	C
ATOM	747	CA	PRO A 116	33.610	31.590	30.743	1.00	28.99	C
ATOM	748	CB	PRO A 116	32.195	32.141	30.894	1.00	29.53	C
ATOM	749	CG	PRO A 116	31.793	31.619	32.267	1.00	29.52	C
ATOM	750	C	PRO A 116	34.482	32.445	29.826	1.00	28.73	C
ATOM	751	O	PRO A 116	34.865	33.560	30.194	1.00	28.39	O
ATOM	752	N	ALA A 117	34.786	31.921	28.639	1.00	27.82	N
ATOM	753	CA	ALA A 117	35.638	32.607	27.663	1.00	28.21	C
ATOM	754	CB	ALA A 117	36.125	31.607	26.614	1.00	26.94	C
ATOM	755	C	ALA A 117	34.977	33.800	26.974	1.00	28.60	C
ATOM	756	O	ALA A 117	35.023	33.930	25.747	1.00	28.59	O
ATOM	757	N	ILE A 118	34.376	34.676	27.766	1.00	28.96	N
ATOM	758	CA	ILE A 118	33.710	35.848	27.225	1.00	29.91	C
ATOM	759	CB	ILE A 118	32.962	36.606	28.335	1.00	31.06	C
ATOM	760	CG2	ILE A 118	32.449	37.950	27.808	1.00	31.44	C
ATOM	761	CG1	ILE A 118	31.809	35.736	28.844	1.00	31.63	C
ATOM	762	CD1	ILE A 118	31.091	36.303	30.038	1.00	33.47	C
ATOM	763	C	ILE A 118	34.673	36.800	26.537	1.00	30.04	C
ATOM	764	O	ILE A 118	34.367	37.329	25.466	1.00	29.91	O
ATOM	765	N	LYS A 119	35.840	37.008	27.143	1.00	29.81	N
ATOM	766	CA	LYS A 119	36.836	37.915	26.584	1.00	30.04	C
ATOM	767	CB	LYS A 119	38.091	37.933	27.468	1.00	30.22	C
ATOM	768	CG	LYS A 119	39.130	38.955	27.020	1.00	30.96	C

Figure 8O

ATOM	769	CD	LYS A 119	40.292	39.050	27.988	1.00	31.45	C
ATOM	770	CE	LYS A 119	41.314	40.048	27.492	1.00	31.36	C
ATOM	771	NZ	LYS A 119	42.566	39.971	28.280	1.00	32.08	N
ATOM	772	C	LYS A 119	37.210	37.606	25.125	1.00	30.26	C
ATOM	773	O	LYS A 119	37.081	38.468	24.260	1.00	30.43	O
ATOM	774	N	PRO A 120	37.687	36.385	24.829	1.00	30.32	N
ATOM	775	CD	PRO A 120	38.119	35.261	25.679	1.00	30.42	C
ATOM	776	CA	PRO A 120	38.024	36.135	23.424	1.00	30.77	C
ATOM	777	CB	PRO A 120	38.743	34.782	23.469	1.00	30.78	C
ATOM	778	CG	PRO A 120	38.175	34.123	24.687	1.00	30.65	C
ATOM	779	C	PRO A 120	36.805	36.124	22.501	1.00	31.13	C
ATOM	780	O	PRO A 120	36.900	36.515	21.339	1.00	31.33	O
ATOM	781	N	ALA A 121	35.662	35.684	23.018	1.00	31.38	N
ATOM	782	CA	ALA A 121	34.447	35.632	22.214	1.00	31.88	C
ATOM	783	CB	ALA A 121	33.317	35.001	23.007	1.00	31.22	C
ATOM	784	C	ALA A 121	34.049	37.030	21.754	1.00	32.64	C
ATOM	785	O	ALA A 121	33.558	37.206	20.637	1.00	32.09	O
ATOM	786	N	ALA A 122	34.268	38.019	22.618	1.00	33.55	N
ATOM	787	CA	ALA A 122	33.931	39.405	22.305	1.00	34.91	C
ATOM	788	CB	ALA A 122	34.108	40.281	23.544	1.00	34.63	C
ATOM	789	C	ALA A 122	34.779	39.944	21.159	1.00	35.90	C
ATOM	790	O	ALA A 122	34.334	40.809	20.408	1.00	36.06	O
ATOM	791	N	ARG A 123	36.000	39.435	21.029	1.00	37.08	N
ATOM	792	CA	ARG A 123	36.901	39.866	19.962	1.00	38.64	C
ATOM	793	CB	ARG A 123	38.363	39.696	20.382	1.00	39.68	C
ATOM	794	CG	ARG A 123	38.775	40.468	21.618	1.00	41.76	C
ATOM	795	CD	ARG A 123	40.279	40.379	21.811	1.00	43.75	C
ATOM	796	NE	ARG A 123	41.000	40.999	20.701	1.00	45.71	N
ATOM	797	CZ	ARG A 123	42.320	40.959	20.547	1.00	46.46	C
ATOM	798	NH1	ARG A 123	43.071	40.321	21.435	1.00	47.45	N
ATOM	799	NH2	ARG A 123	42.891	41.564	19.512	1.00	47.03	N
ATOM	800	C	ARG A 123	36.689	39.068	18.678	1.00	39.10	C
ATOM	801	O	ARG A 123	37.252	39.405	17.636	1.00	39.34	O
ATOM	802	N	LEU A 124	35.886	38.011	18.749	1.00	39.13	N
ATOM	803	CA	LEU A 124	35.653	37.165	17.583	1.00	39.56	C
ATOM	804	CB	LEU A 124	35.776	35.686	17.975	1.00	39.49	C
ATOM	805	CG	LEU A 124	37.133	35.224	18.517	1.00	39.90	C
ATOM	806	CD1	LEU A 124	37.039	33.765	18.952	1.00	40.24	C
ATOM	807	CD2	LEU A 124	38.210	35.398	17.455	1.00	40.03	C
ATOM	808	C	LEU A 124	34.315	37.391	16.895	1.00	39.81	C
ATOM	809	O	LEU A 124	34.197	37.192	15.685	1.00	39.83	O
ATOM	810	N	THR A 125	33.311	37.807	17.659	1.00	39.86	N
ATOM	811	CA	THR A 125	31.991	38.027	17.096	1.00	40.44	C
ATOM	812	CB	THR A 125	30.981	38.482	18.179	1.00	40.32	C
ATOM	813	OG1	THR A 125	29.685	38.636	17.589	1.00	40.44	O
ATOM	814	CG2	THR A 125	31.411	39.803	18.809	1.00	40.44	C
ATOM	815	C	THR A 125	32.023	39.057	15.971	1.00	41.06	C
ATOM	816	O	THR A 125	32.777	40.028	16.022	1.00	40.79	O
ATOM	817	N	ALA A 126	31.206	38.826	14.949	1.00	41.50	N
ATOM	818	CA	ALA A 126	31.133	39.732	13.812	1.00	42.01	C
ATOM	819	CB	ALA A 126	31.214	38.943	12.507	1.00	41.90	C
ATOM	820	C	ALA A 126	29.837	40.532	13.861	1.00	42.35	C
ATOM	821	O	ALA A 126	29.798	41.685	13.427	1.00	42.99	O
ATOM	822	N	ASN A 127	28.778	39.928	14.394	1.00	41.88	N
ATOM	823	CA	ASN A 127	27.493	40.613	14.476	1.00	41.62	C
ATOM	824	CB	ASN A 127	26.350	39.641	14.147	1.00	41.84	C
ATOM	825	CG	ASN A 127	26.027	38.692	15.291	1.00	41.92	C
ATOM	826	OD1	ASN A 127	26.847	38.451	16.175	1.00	41.99	O

Figure 8P

ATOM	827	ND2 ASN A 127	24.822	38.135	15.264	1.00	41.74	N
ATOM	828	C ASN A 127	27.266	41.262	15.834	1.00	41.10	C
ATOM	829	O ASN A 127	26.241	41.902	16.066	1.00	41.43	O
ATOM	830	N GLY A 128	28.234	41.101	16.730	1.00	40.81	N
ATOM	831	CA GLY A 128	28.122	41.688	18.052	1.00	39.82	C
ATOM	832	C GLY A 128	27.185	40.965	19.004	1.00	39.18	C
ATOM	833	O GLY A 128	26.933	41.453	20.103	1.00	39.41	O
ATOM	834	N ILE A 129	26.660	39.812	18.594	1.00	38.60	N
ATOM	835	CA ILE A 129	25.757	39.044	19.451	1.00	37.56	C
ATOM	836	CB ILE A 129	24.523	38.522	18.686	1.00	37.63	C
ATOM	837	CG2 ILE A 129	23.450	38.100	19.686	1.00	37.28	C
ATOM	838	CG1 ILE A 129	23.980	39.593	17.732	1.00	38.02	C
ATOM	839	CD1 ILE A 129	23.250	40.727	18.406	1.00	38.18	C
ATOM	840	C ILE A 129	26.510	37.822	19.983	1.00	36.88	C
ATOM	841	O ILE A 129	26.787	36.882	19.241	1.00	36.65	O
ATOM	842	N VAL A 130	26.834	37.840	21.270	1.00	35.90	N
ATOM	843	CA VAL A 130	27.554	36.733	21.877	1.00	34.41	C
ATOM	844	CB VAL A 130	28.823	37.233	22.594	1.00	34.44	C
ATOM	845	CG1 VAL A 130	29.512	36.079	23.314	1.00	34.63	C
ATOM	846	CG2 VAL A 130	29.768	37.857	21.578	1.00	33.95	C
ATOM	847	C VAL A 130	26.674	35.990	22.870	1.00	33.52	C
ATOM	848	O VAL A 130	26.082	36.589	23.770	1.00	33.77	O
ATOM	849	N GLY A 131	26.583	34.679	22.695	1.00	32.38	N
ATOM	850	CA GLY A 131	25.779	33.877	23.593	1.00	31.20	C
ATOM	851	C GLY A 131	26.626	33.212	24.667	1.00	30.54	C
ATOM	852	O GLY A 131	27.799	32.903	24.453	1.00	29.56	O
ATOM	853	N LEU A 132	26.032	33.009	25.837	1.00	29.94	N
ATOM	854	CA LEU A 132	26.726	32.348	26.930	1.00	29.63	C
ATOM	855	CB LEU A 132	26.970	33.314	28.094	1.00	29.35	C
ATOM	856	CG LEU A 132	27.559	32.707	29.383	1.00	29.67	C
ATOM	857	CD1 LEU A 132	28.930	32.091	29.115	1.00	28.73	C
ATOM	858	CD2 LEU A 132	27.676	33.800	30.444	1.00	29.83	C
ATOM	859	C LEU A 132	25.870	31.189	27.402	1.00	29.56	C
ATOM	860	O LEU A 132	24.764	31.392	27.912	1.00	29.35	O
ATOM	861	N LEU A 133	26.362	29.975	27.190	1.00	29.49	N
ATOM	862	CA LEU A 133	25.658	28.776	27.632	1.00	30.26	C
ATOM	863	CB LEU A 133	25.747	27.655	26.596	1.00	29.82	C
ATOM	864	CG LEU A 133	24.832	27.685	25.382	1.00	29.97	C
ATOM	865	CD1 LEU A 133	25.087	26.431	24.561	1.00	29.36	C
ATOM	866	CD2 LEU A 133	23.370	27.738	25.831	1.00	29.56	C
ATOM	867	C LEU A 133	26.374	28.328	28.891	1.00	30.96	C
ATOM	868	O LEU A 133	27.577	28.064	28.867	1.00	30.93	O
ATOM	869	N ALA A 134	25.641	28.258	29.991	1.00	31.95	N
ATOM	870	CA ALA A 134	26.220	27.838	31.256	1.00	33.61	C
ATOM	871	CB ALA A 134	26.671	29.056	32.057	1.00	33.35	C
ATOM	872	C ALA A 134	25.157	27.080	32.022	1.00	34.73	C
ATOM	873	O ALA A 134	24.021	26.963	31.567	1.00	34.36	O
ATOM	874	N THR A 135	25.515	26.552	33.184	1.00	36.55	N
ATOM	875	CA THR A 135	24.522	25.845	33.960	1.00	38.50	C
ATOM	876	CB THR A 135	25.166	24.865	34.958	1.00	38.44	C
ATOM	877	OG1 THR A 135	24.136	24.057	35.544	1.00	38.63	O
ATOM	878	CG2 THR A 135	25.932	25.610	36.037	1.00	37.99	C
ATOM	879	C THR A 135	23.676	26.890	34.683	1.00	40.21	C
ATOM	880	O THR A 135	24.069	28.056	34.790	1.00	39.88	O
ATOM	881	N ARG A 136	22.514	26.470	35.169	1.00	42.42	N
ATOM	882	CA ARG A 136	21.592	27.374	35.840	1.00	44.95	C
ATOM	883	CB ARG A 136	20.419	26.584	36.429	1.00	44.96	C
ATOM	884	CG ARG A 136	19.310	27.468	36.958	1.00	45.04	C

Figure 8Q

ATOM	885	CD ARG A 136	18.840	28.437	35.880	1.00	44.89	C
ATOM	886	NE ARG A 136	18.043	29.521	36.442	1.00	45.05	N
ATOM	887	CZ ARG A 136	17.561	30.538	35.736	1.00	44.74	C
ATOM	888	NH1 ARG A 136	17.794	30.611	34.433	1.00	44.68	N
ATOM	889	NH2 ARG A 136	16.854	31.484	36.337	1.00	44.28	N
ATOM	890	C ARG A 136	22.226	28.242	36.921	1.00	46.64	C
ATOM	891	O ARG A 136	21.963	29.443	36.987	1.00	46.85	O
ATOM	892	N GLY A 137	23.064	27.637	37.759	1.00	48.47	N
ATOM	893	CA GLY A 137	23.705	28.383	38.828	1.00	50.63	C
ATOM	894	C GLY A 137	24.761	29.390	38.405	1.00	52.15	C
ATOM	895	O GLY A 137	24.957	30.403	39.077	1.00	52.40	O
ATOM	896	N THR A 138	25.439	29.122	37.295	1.00	53.81	N
ATOM	897	CA THR A 138	26.493	30.007	36.804	1.00	55.54	C
ATOM	898	CB THR A 138	27.342	29.297	35.732	1.00	55.54	C
ATOM	899	OG1 THR A 138	27.916	28.110	36.292	1.00	55.73	O
ATOM	900	CG2 THR A 138	28.458	30.209	35.236	1.00	55.51	C
ATOM	901	C THR A 138	25.984	31.326	36.223	1.00	56.87	C
ATOM	902	O THR A 138	26.685	32.337	36.264	1.00	57.03	O
ATOM	903	N VAL A 139	24.769	31.314	35.682	1.00	58.47	N
ATOM	904	CA VAL A 139	24.190	32.516	35.087	1.00	60.06	C
ATOM	905	CB VAL A 139	23.136	32.151	34.009	1.00	59.85	C
ATOM	906	CG1 VAL A 139	23.805	31.438	32.846	1.00	59.91	C
ATOM	907	CG2 VAL A 139	22.055	31.273	34.613	1.00	59.77	C
ATOM	908	C VAL A 139	23.537	33.432	36.123	1.00	61.27	C
ATOM	909	O VAL A 139	23.011	34.495	35.783	1.00	61.39	O
ATOM	910	N LYS A 140	23.581	33.020	37.386	1.00	62.64	N
ATOM	911	CA LYS A 140	22.987	33.797	38.471	1.00	64.06	C
ATOM	912	CB LYS A 140	22.045	32.902	39.285	1.00	64.35	C
ATOM	913	CG LYS A 140	21.287	33.610	40.403	1.00	64.87	C
ATOM	914	CD LYS A 140	20.275	32.679	41.073	1.00	65.20	C
ATOM	915	CE LYS A 140	20.948	31.483	41.739	1.00	65.27	C
ATOM	916	NZ LYS A 140	21.879	31.897	42.826	1.00	65.54	N
ATOM	917	C LYS A 140	24.071	34.378	39.379	1.00	64.96	C
ATOM	918	O LYS A 140	23.778	35.104	40.331	1.00	65.26	O
ATOM	919	N ARG A 141	25.323	34.057	39.070	1.00	65.90	N
ATOM	920	CA ARG A 141	26.464	34.523	39.850	1.00	66.86	C
ATOM	921	CB ARG A 141	27.653	33.584	39.639	1.00	67.34	C
ATOM	922	CG ARG A 141	27.501	32.230	40.306	1.00	68.13	C
ATOM	923	CD ARG A 141	27.641	32.357	41.813	1.00	68.85	C
ATOM	924	NE ARG A 141	27.467	31.079	42.497	1.00	69.48	N
ATOM	925	CZ ARG A 141	26.332	30.387	42.510	1.00	69.74	C
ATOM	926	NH1 ARG A 141	25.263	30.847	41.873	1.00	69.96	N
ATOM	927	NH2 ARG A 141	26.262	29.238	43.167	1.00	69.94	N
ATOM	928	C ARG A 141	26.889	35.946	39.511	1.00	67.23	C
ATOM	929	O ARG A 141	26.868	36.353	38.349	1.00	67.16	O
ATOM	930	N SER A 142	27.283	36.695	40.537	1.00	67.70	N
ATOM	931	CA SER A 142	27.733	38.069	40.354	1.00	68.23	C
ATOM	932	CB SER A 142	27.953	38.742	41.713	1.00	68.35	C
ATOM	933	OG SER A 142	28.985	38.101	42.441	1.00	68.33	O
ATOM	934	C SER A 142	29.040	38.061	39.567	1.00	68.56	C
ATOM	935	O SER A 142	29.280	38.931	38.731	1.00	68.56	O
ATOM	936	N TYR A 143	29.878	37.067	39.845	1.00	68.92	N
ATOM	937	CA TYR A 143	31.164	36.921	39.171	1.00	69.28	C
ATOM	938	CB TYR A 143	31.829	35.609	39.605	1.00	69.43	C
ATOM	939	CG TYR A 143	33.270	35.440	39.157	1.00	69.75	C
ATOM	940	CD1 TYR A 143	33.605	35.365	37.804	1.00	69.92	C
ATOM	941	CE1 TYR A 143	34.930	35.193	37.395	1.00	69.93	C
ATOM	942	CD2 TYR A 143	34.300	35.339	40.094	1.00	69.94	C

Figure 8R

ATOM	943	CE2 TYR A 143	35.628	35.165	39.697	1.00	69.89	C
ATOM	944	CZ TYR A 143	35.935	35.093	38.346	1.00	69.96	C
ATOM	945	OH TYR A 143	37.243	34.918	37.950	1.00	69.93	O
ATOM	946	C TYR A 143	30.945	36.916	37.659	1.00	69.53	C
ATOM	947	O TYR A 143	31.741	37.474	36.900	1.00	69.51	O
ATOM	948	N THR A 144	29.857	36.286	37.229	1.00	69.65	N
ATOM	949	CA THR A 144	29.539	36.207	35.811	1.00	70.00	C
ATOM	950	CB THR A 144	28.400	35.200	35.553	1.00	69.84	C
ATOM	951	OG1 THR A 144	28.718	33.944	36.168	1.00	69.88	O
ATOM	952	CG2 THR A 144	28.210	34.987	34.056	1.00	69.88	C
ATOM	953	C THR A 144	29.123	37.577	35.277	1.00	70.22	C
ATOM	954	O THR A 144	29.803	38.149	34.424	1.00	70.09	O
ATOM	955	N HIS A 145	28.011	38.096	35.794	1.00	70.56	N
ATOM	956	CA HIS A 145	27.484	39.395	35.378	1.00	70.96	C
ATOM	957	CB HIS A 145	26.435	39.893	36.380	1.00	71.08	C
ATOM	958	CG HIS A 145	25.333	38.916	36.643	1.00	71.36	C
ATOM	959	CD2 HIS A 145	24.826	38.435	37.803	1.00	71.32	C
ATOM	960	ND1 HIS A 145	24.602	38.327	35.633	1.00	71.38	N
ATOM	961	CE1 HIS A 145	23.694	37.525	36.160	1.00	71.57	C
ATOM	962	NE2 HIS A 145	23.809	37.572	37.475	1.00	71.52	N
ATOM	963	C HIS A 145	28.582	40.446	35.245	1.00	71.08	C
ATOM	964	O HIS A 145	28.543	41.296	34.354	1.00	71.07	O
ATOM	965	N GLU A 146	29.559	40.381	36.142	1.00	71.21	N
ATOM	966	CA GLU A 146	30.671	41.321	36.139	1.00	71.44	C
ATOM	967	CB GLU A 146	31.480	41.165	37.428	1.00	71.84	C
ATOM	968	CG GLU A 146	30.672	41.443	38.688	1.00	72.39	C
ATOM	969	CD GLU A 146	31.393	41.024	39.956	1.00	72.71	C
ATOM	970	OE1 GLU A 146	30.792	41.143	41.043	1.00	73.01	O
ATOM	971	OE2 GLU A 146	32.558	40.576	39.868	1.00	72.85	O
ATOM	972	C GLU A 146	31.575	41.116	34.930	1.00	71.35	C
ATOM	973	O GLU A 146	31.878	42.063	34.206	1.00	71.49	O
ATOM	974	N LEU A 147	32.004	39.876	34.714	1.00	71.27	N
ATOM	975	CA LEU A 147	32.874	39.556	33.589	1.00	71.04	C
ATOM	976	CB LEU A 147	33.146	38.050	33.546	1.00	71.09	C
ATOM	977	CG LEU A 147	34.138	37.538	32.498	1.00	71.03	C
ATOM	978	CD1 LEU A 147	35.511	38.141	32.744	1.00	70.98	C
ATOM	979	CD2 LEU A 147	34.213	36.021	32.574	1.00	71.22	C
ATOM	980	C LEU A 147	32.232	40.000	32.277	1.00	70.90	C
ATOM	981	O LEU A 147	32.914	40.466	31.364	1.00	70.81	O
ATOM	982	N ILE A 148	30.914	39.855	32.198	1.00	70.62	N
ATOM	983	CA ILE A 148	30.163	40.233	31.008	1.00	70.53	C
ATOM	984	CB ILE A 148	28.669	39.878	31.172	1.00	70.38	C
ATOM	985	CG2 ILE A 148	27.858	40.466	30.025	1.00	70.25	C
ATOM	986	CG1 ILE A 148	28.506	38.358	31.229	1.00	70.30	C
ATOM	987	CD1 ILE A 148	27.075	37.894	31.422	1.00	70.22	C
ATOM	988	C ILE A 148	30.285	41.723	30.701	1.00	70.59	C
ATOM	989	O ILE A 148	30.228	42.135	29.543	1.00	70.52	O
ATOM	990	N ALA A 149	30.457	42.527	31.743	1.00	70.67	N
ATOM	991	CA ALA A 149	30.579	43.967	31.573	1.00	70.58	C
ATOM	992	CB ALA A 149	29.961	44.681	32.769	1.00	70.60	C
ATOM	993	C ALA A 149	32.034	44.392	31.402	1.00	70.54	C
ATOM	994	O ALA A 149	32.323	45.395	30.747	1.00	70.64	O
ATOM	995	N ARG A 150	32.948	43.620	31.979	1.00	70.38	N
ATOM	996	CA ARG A 150	34.370	43.938	31.906	1.00	70.26	C
ATOM	997	CB ARG A 150	35.140	43.138	32.964	1.00	70.67	C
ATOM	998	CG ARG A 150	36.625	43.473	33.034	1.00	71.26	C
ATOM	999	CD ARG A 150	37.341	42.765	34.186	1.00	71.83	C
ATOM	1000	NE ARG A 150	36.910	43.228	35.505	1.00	72.23	N

Figure 8S

ATOM	1001	CZ	ARG A 150	35.813	42.811	36.134	1.00	72.55	C
ATOM	1002	NH1	ARG A 150	35.017	41.907	35.572	1.00	72.75	N
ATOM	1003	NH2	ARG A 150	35.511	43.299	37.331	1.00	72.57	N
ATOM	1004	C	ARG A 150	35.024	43.735	30.536	1.00	69.94	C
ATOM	1005	O	ARG A 150	35.754	44.611	30.063	1.00	69.86	O
ATOM	1006	N	PHE A 151	34.773	42.595	29.895	1.00	69.42	N
ATOM	1007	CA	PHE A 151	35.380	42.329	28.591	1.00	68.83	C
ATOM	1008	CB	PHE A 151	36.232	41.055	28.644	1.00	68.80	C
ATOM	1009	CG	PHE A 151	37.376	41.128	29.616	1.00	68.86	C
ATOM	1010	CD1	PHE A 151	37.245	40.621	30.905	1.00	68.95	C
ATOM	1011	CD2	PHE A 151	38.583	41.714	29.247	1.00	68.94	C
ATOM	1012	CE1	PHE A 151	38.302	40.696	31.813	1.00	68.85	C
ATOM	1013	CE2	PHE A 151	39.645	41.794	30.148	1.00	68.87	C
ATOM	1014	CZ	PHE A 151	39.503	41.284	31.432	1.00	68.86	C
ATOM	1015	C	PHE A 151	34.400	42.221	27.426	1.00	68.31	C
ATOM	1016	O	PHE A 151	34.789	41.836	26.324	1.00	68.27	O
ATOM	1017	N	ALA A 152	33.139	42.564	27.661	1.00	67.70	N
ATOM	1018	CA	ALA A 152	32.136	42.498	26.605	1.00	67.16	C
ATOM	1019	CB	ALA A 152	31.309	41.231	26.757	1.00	67.17	C
ATOM	1020	C	ALA A 152	31.229	43.725	26.621	1.00	66.73	C
ATOM	1021	O	ALA A 152	30.010	43.613	26.510	1.00	66.67	O
ATOM	1022	N	ASN A 153	31.838	44.899	26.751	1.00	66.39	N
ATOM	1023	CA	ASN A 153	31.098	46.156	26.791	1.00	65.89	C
ATOM	1024	CB	ASN A 153	31.966	47.243	27.436	1.00	66.36	C
ATOM	1025	CG	ASN A 153	31.191	48.517	27.732	1.00	66.81	C
ATOM	1026	OD1	ASN A 153	31.761	49.509	28.191	1.00	66.98	O
ATOM	1027	ND2	ASN A 153	29.886	48.495	27.478	1.00	66.94	N
ATOM	1028	C	ASN A 153	30.669	46.600	25.392	1.00	65.27	C
ATOM	1029	O	ASN A 153	29.718	47.364	25.237	1.00	65.39	O
ATOM	1030	N	GLU A 154	31.369	46.111	24.374	1.00	64.45	N
ATOM	1031	CA	GLU A 154	31.063	46.476	22.997	1.00	63.52	C
ATOM	1032	CB	GLU A 154	32.366	46.632	22.204	1.00	64.22	C
ATOM	1033	CG	GLU A 154	33.491	45.686	22.626	1.00	65.05	C
ATOM	1034	CD	GLU A 154	33.119	44.220	22.493	1.00	65.51	C
ATOM	1035	OE1	GLU A 154	32.757	43.794	21.373	1.00	65.78	O
ATOM	1036	OE2	GLU A 154	33.193	43.495	23.510	1.00	65.61	O
ATOM	1037	C	GLU A 154	30.121	45.519	22.269	1.00	62.47	C
ATOM	1038	O	GLU A 154	29.863	45.687	21.074	1.00	62.51	O
ATOM	1039	N	CYS A 155	29.602	44.522	22.981	1.00	60.87	N
ATOM	1040	CA	CYS A 155	28.684	43.561	22.373	1.00	59.19	C
ATOM	1041	CB	CYS A 155	29.437	42.294	21.950	1.00	59.45	C
ATOM	1042	SG	CYS A 155	30.164	41.355	23.315	1.00	59.76	S
ATOM	1043	C	CYS A 155	27.564	43.192	23.337	1.00	57.82	C
ATOM	1044	O	CYS A 155	27.679	43.403	24.541	1.00	57.62	O
ATOM	1045	N	GLN A 156	26.477	42.645	22.802	1.00	56.31	N
ATOM	1046	CA	GLN A 156	25.353	42.249	23.637	1.00	54.79	C
ATOM	1047	CB	GLN A 156	24.024	42.538	22.932	1.00	55.37	C
ATOM	1048	CG	GLN A 156	23.782	41.739	21.671	1.00	56.39	C
ATOM	1049	CD	GLN A 156	22.406	41.995	21.084	1.00	57.13	C
ATOM	1050	OE1	GLN A 156	22.079	43.123	20.703	1.00	57.59	O
ATOM	1051	NE2	GLN A 156	21.590	40.946	21.011	1.00	57.49	N
ATOM	1052	C	GLN A 156	25.457	40.767	23.976	1.00	53.29	C
ATOM	1053	O	GLN A 156	25.692	39.929	23.107	1.00	53.00	O
ATOM	1054	N	ILE A 157	25.275	40.453	25.252	1.00	51.67	N
ATOM	1055	CA	ILE A 157	25.372	39.081	25.720	1.00	49.85	C
ATOM	1056	CB	ILE A 157	26.185	39.009	27.030	1.00	50.01	C
ATOM	1057	CG2	ILE A 157	26.243	37.575	27.537	1.00	50.23	C
ATOM	1058	CG1	ILE A 157	27.589	39.570	26.801	1.00	50.25	C

Figure 8T

ATOM	1059	CD1 ILE A 157	28.382	38.852	25.727	1.00	50.65	C
ATOM	1060	C ILE A 157	24.021	38.430	25.958	1.00	48.42	C
ATOM	1061	O ILE A 157	23.185	38.955	26.689	1.00	48.14	O
ATOM	1062	N GLU A 158	23.819	37.279	25.328	1.00	46.69	N
ATOM	1063	CA GLU A 158	22.589	36.518	25.481	1.00	45.32	C
ATOM	1064	CB GLU A 158	22.104	35.996	24.127	1.00	45.68	C
ATOM	1065	CG GLU A 158	21.695	37.070	23.136	1.00	46.58	C
ATOM	1066	CD GLU A 158	20.560	37.931	23.652	1.00	47.34	C
ATOM	1067	OE1 GLU A 158	19.576	37.369	24.179	1.00	47.28	O
ATOM	1068	OE2 GLU A 158	20.650	39.169	23.525	1.00	48.19	O
ATOM	1069	C GLU A 158	22.920	35.336	26.385	1.00	43.98	C
ATOM	1070	O GLU A 158	23.606	34.407	25.963	1.00	43.50	O
ATOM	1071	N MET A 159	22.446	35.378	27.626	1.00	42.74	N
ATOM	1072	CA MET A 159	22.711	34.295	28.570	1.00	41.56	C
ATOM	1073	CB MET A 159	22.798	34.815	30.004	1.00	42.39	C
ATOM	1074	CG MET A 159	24.088	35.514	30.371	1.00	44.11	C
ATOM	1075	SD MET A 159	24.267	35.526	32.176	1.00	46.60	S
ATOM	1076	CE MET A 159	22.851	36.541	32.649	1.00	46.03	C
ATOM	1077	C MET A 159	21.648	33.218	28.532	1.00	40.26	C
ATOM	1078	O MET A 159	20.464	33.501	28.365	1.00	39.98	O
ATOM	1079	N LEU A 160	22.083	31.978	28.704	1.00	38.69	N
ATOM	1080	CA LEU A 160	21.172	30.848	28.721	1.00	37.59	C
ATOM	1081	CB LEU A 160	21.018	30.279	27.305	1.00	37.60	C
ATOM	1082	CG LEU A 160	19.784	29.422	27.024	1.00	37.90	C
ATOM	1083	CD1 LEU A 160	19.650	29.202	25.519	1.00	37.83	C
ATOM	1084	CD2 LEU A 160	19.890	28.097	27.761	1.00	37.80	C
ATOM	1085	C LEU A 160	21.750	29.800	29.677	1.00	36.65	C
ATOM	1086	O LEU A 160	22.753	29.151	29.374	1.00	36.13	O
ATOM	1087	N GLY A 161	21.125	29.663	30.844	1.00	35.74	N
ATOM	1088	CA GLY A 161	21.586	28.699	31.831	1.00	34.53	C
ATOM	1089	C GLY A 161	20.761	27.429	31.760	1.00	33.81	C
ATOM	1090	O GLY A 161	19.531	27.483	31.773	1.00	33.71	O
ATOM	1091	N SER A 162	21.424	26.281	31.688	1.00	32.70	N
ATOM	1092	CA SER A 162	20.701	25.018	31.599	1.00	31.67	C
ATOM	1093	CB SER A 162	20.570	24.587	30.134	1.00	30.98	C
ATOM	1094	OG SER A 162	19.993	23.293	30.042	1.00	30.57	O
ATOM	1095	C SER A 162	21.317	23.873	32.386	1.00	31.01	C
ATOM	1096	O SER A 162	22.365	23.346	32.016	1.00	30.76	O
ATOM	1097	N ALA A 163	20.650	23.477	33.464	1.00	30.33	N
ATOM	1098	CA ALA A 163	21.125	22.369	34.273	1.00	29.58	C
ATOM	1099	CB ALA A 163	20.385	22.341	35.603	1.00	30.07	C
ATOM	1100	C ALA A 163	20.856	21.080	33.489	1.00	29.44	C
ATOM	1101	O ALA A 163	21.569	20.089	33.631	1.00	28.92	O
ATOM	1102	N GLU A 164	19.825	21.106	32.649	1.00	29.32	N
ATOM	1103	CA GLU A 164	19.476	19.936	31.853	1.00	29.78	C
ATOM	1104	CB GLU A 164	18.172	20.184	31.095	1.00	31.44	C
ATOM	1105	CG GLU A 164	17.655	18.951	30.371	1.00	34.82	C
ATOM	1106	CD GLU A 164	16.325	19.187	29.679	1.00	36.46	C
ATOM	1107	OE1 GLU A 164	15.678	20.222	29.958	1.00	38.07	O
ATOM	1108	OE2 GLU A 164	15.924	18.327	28.864	1.00	37.79	O
ATOM	1109	C GLU A 164	20.582	19.575	30.859	1.00	29.30	C
ATOM	1110	O GLU A 164	20.847	18.399	30.596	1.00	28.77	O
ATOM	1111	N MET A 165	21.232	20.587	30.300	1.00	28.45	N
ATOM	1112	CA MET A 165	22.298	20.317	29.345	1.00	28.20	C
ATOM	1113	CB MET A 165	22.778	21.620	28.710	1.00	28.91	C
ATOM	1114	CG MET A 165	23.570	21.398	27.431	1.00	30.59	C
ATOM	1115	SD MET A 165	24.035	22.940	26.620	1.00	31.94	S
ATOM	1116	CE MET A 165	22.494	23.418	25.882	1.00	31.97	C

Figure 8U

ATOM	1117	C	MET A 165	23.454	19.606	30.050	1.00	27.54	C
ATOM	1118	O	MET A 165	24.131	18.758	29.463	1.00	27.24	O
ATOM	1119	N	VAL A 166	23.678	19.952	31.314	1.00	26.73	N
ATOM	1120	CA	VAL A 166	24.740	19.311	32.073	1.00	26.74	C
ATOM	1121	CB	VAL A 166	24.841	19.883	33.500	1.00	26.61	C
ATOM	1122	CG1	VAL A 166	25.928	19.145	34.277	1.00	26.96	C
ATOM	1123	CG2	VAL A 166	25.149	21.373	33.441	1.00	26.49	C
ATOM	1124	C	VAL A 166	24.424	17.820	32.152	1.00	27.07	C
ATOM	1125	O	VAL A 166	25.301	16.980	31.972	1.00	26.02	O
ATOM	1126	N	GLU A 167	23.158	17.506	32.417	1.00	27.89	N
ATOM	1127	CA	GLU A 167	22.714	16.121	32.517	1.00	29.12	C
ATOM	1128	CB	GLU A 167	21.260	16.062	33.002	1.00	31.04	C
ATOM	1129	CG	GLU A 167	21.099	16.378	34.471	1.00	34.37	C
ATOM	1130	CD	GLU A 167	22.033	15.552	35.344	1.00	36.89	C
ATOM	1131	OE1	GLU A 167	22.130	14.321	35.130	1.00	38.46	O
ATOM	1132	OE2	GLU A 167	22.675	16.130	36.249	1.00	38.74	O
ATOM	1133	C	GLU A 167	22.842	15.390	31.189	1.00	28.28	C
ATOM	1134	O	GLU A 167	23.150	14.200	31.153	1.00	28.26	O
ATOM	1135	N	LEU A 168	22.598	16.100	30.095	1.00	28.21	N
ATOM	1136	CA	LEU A 168	22.712	15.494	28.779	1.00	28.05	C
ATOM	1137	CB	LEU A 168	22.265	16.487	27.697	1.00	28.07	C
ATOM	1138	CG	LEU A 168	20.756	16.747	27.683	1.00	28.26	C
ATOM	1139	CD1	LEU A 168	20.422	17.814	26.662	1.00	28.45	C
ATOM	1140	CD2	LEU A 168	20.025	15.452	27.366	1.00	28.49	C
ATOM	1141	C	LEU A 168	24.163	15.077	28.568	1.00	27.93	C
ATOM	1142	O	LEU A 168	24.438	13.999	28.037	1.00	28.11	O
ATOM	1143	N	ALA A 169	25.089	15.926	29.007	1.00	27.73	N
ATOM	1144	CA	ALA A 169	26.515	15.632	28.873	1.00	28.12	C
ATOM	1145	CB	ALA A 169	27.358	16.852	29.288	1.00	27.69	C
ATOM	1146	C	ALA A 169	26.859	14.426	29.746	1.00	28.18	C
ATOM	1147	O	ALA A 169	27.572	13.519	29.311	1.00	28.29	O
ATOM	1148	N	GLU A 170	26.357	14.415	30.978	1.00	28.76	N
ATOM	1149	CA	GLU A 170	26.610	13.285	31.873	1.00	29.18	C
ATOM	1150	CB	GLU A 170	25.898	13.480	33.218	1.00	29.14	C
ATOM	1151	CG	GLU A 170	26.581	14.460	34.167	1.00	29.02	C
ATOM	1152	CD	GLU A 170	27.862	13.903	34.788	1.00	29.97	C
ATOM	1153	OE1	GLU A 170	28.793	14.700	35.045	1.00	29.30	O
ATOM	1154	OE2	GLU A 170	27.939	12.676	35.032	1.00	30.01	O
ATOM	1155	C	GLU A 170	26.099	12.011	31.205	1.00	29.51	C
ATOM	1156	O	GLU A 170	26.824	11.025	31.090	1.00	29.71	O
ATOM	1157	N	ALA A 171	24.848	12.042	30.752	1.00	29.94	N
ATOM	1158	CA	ALA A 171	24.253	10.883	30.094	1.00	30.26	C
ATOM	1159	CB	ALA A 171	22.868	11.234	29.572	1.00	30.29	C
ATOM	1160	C	ALA A 171	25.124	10.394	28.947	1.00	30.81	C
ATOM	1161	O	ALA A 171	25.412	9.201	28.834	1.00	31.13	O
ATOM	1162	N	LYS A 172	25.546	11.316	28.091	1.00	31.06	N
ATOM	1163	CA	LYS A 172	26.366	10.947	26.950	1.00	32.12	C
ATOM	1164	CB	LYS A 172	26.795	12.192	26.171	1.00	32.06	C
ATOM	1165	CG	LYS A 172	27.626	11.871	24.940	1.00	32.46	C
ATOM	1166	CD	LYS A 172	28.013	13.136	24.180	1.00	32.50	C
ATOM	1167	CE	LYS A 172	28.815	12.800	22.932	1.00	33.01	C
ATOM	1168	NZ	LYS A 172	29.159	14.022	22.167	1.00	32.96	N
ATOM	1169	C	LYS A 172	27.597	10.131	27.326	1.00	32.64	C
ATOM	1170	O	LYS A 172	27.829	9.062	26.757	1.00	32.92	O
ATOM	1171	N	LEU A 173	28.387	10.620	28.276	1.00	33.14	N
ATOM	1172	CA	LEU A 173	29.587	9.897	28.669	1.00	34.31	C
ATOM	1173	CB	LEU A 173	30.552	10.812	29.433	1.00	34.17	C
ATOM	1174	CG	LEU A 173	31.093	12.078	28.747	1.00	34.37	C

Figure 8V

ATOM	1175	CD1 LEU A 173	32.576	12.212	29.062	1.00	33.96	C
ATOM	1176	CD2 LEU A 173	30.880	12.025	27.247	1.00	34.33	C
ATOM	1177	C LEU A 173	29.278	8.653	29.496	1.00	35.30	C
ATOM	1178	O LEU A 173	30.172	7.870	29.805	1.00	35.42	O
ATOM	1179	N HIS A 174	28.015	8.473	29.864	1.00	36.72	N
ATOM	1180	CA HIS A 174	27.630	7.293	30.626	1.00	38.16	C
ATOM	1181	CB HIS A 174	26.560	7.644	31.664	1.00	37.76	C
ATOM	1182	CG HIS A 174	27.124	8.213	32.929	1.00	37.39	C
ATOM	1183	CD2 HIS A 174	27.348	9.494	33.308	1.00	37.15	C
ATOM	1184	ND1 HIS A 174	27.602	7.422	33.953	1.00	37.82	N
ATOM	1185	CE1 HIS A 174	28.095	8.192	34.907	1.00	37.44	C
ATOM	1186	NE2 HIS A 174	27.955	9.453	34.540	1.00	37.12	N
ATOM	1187	C HIS A 174	27.130	6.219	29.669	1.00	39.31	C
ATOM	1188	O HIS A 174	26.810	5.108	30.083	1.00	39.72	O
ATOM	1189	N GLY A 175	27.073	6.560	28.384	1.00	40.42	N
ATOM	1190	CA GLY A 175	26.639	5.597	27.387	1.00	41.81	C
ATOM	1191	C GLY A 175	25.287	5.845	26.747	1.00	43.00	C
ATOM	1192	O GLY A 175	24.886	5.105	25.846	1.00	43.03	O
ATOM	1193	N GLU A 176	24.571	6.868	27.204	1.00	43.77	N
ATOM	1194	CA GLU A 176	23.266	7.173	26.629	1.00	45.02	C
ATOM	1195	CB GLU A 176	22.324	7.762	27.686	1.00	46.03	C
ATOM	1196	CG GLU A 176	21.921	6.795	28.792	1.00	47.96	C
ATOM	1197	CD GLU A 176	22.955	6.689	29.898	1.00	49.25	C
ATOM	1198	OE1 GLU A 176	23.169	7.694	30.614	1.00	49.83	O
ATOM	1199	OE2 GLU A 176	23.552	5.601	30.055	1.00	50.12	O
ATOM	1200	C GLU A 176	23.413	8.153	25.474	1.00	45.17	C
ATOM	1201	O GLU A 176	24.327	8.975	25.459	1.00	45.70	O
ATOM	1202	N ASP A 177	22.512	8.059	24.503	1.00	45.24	N
ATOM	1203	CA ASP A 177	22.545	8.938	23.342	1.00	44.89	C
ATOM	1204	CB ASP A 177	21.869	8.253	22.157	1.00	46.19	C
ATOM	1205	CG ASP A 177	22.460	6.882	21.871	1.00	47.31	C
ATOM	1206	OD1 ASP A 177	23.559	6.818	21.272	1.00	47.70	C
ATOM	1207	OD2 ASP A 177	21.831	5.873	22.257	1.00	48.01	C
ATOM	1208	C ASP A 177	21.833	10.238	23.672	1.00	43.98	C
ATOM	1209	O ASP A 177	20.814	10.243	24.357	1.00	44.07	O
ATOM	1210	N VAL A 178	22.381	11.342	23.186	1.00	42.87	N
ATOM	1211	CA VAL A 178	21.800	12.649	23.441	1.00	41.57	C
ATOM	1212	CB VAL A 178	22.812	13.765	23.229	1.00	41.45	C
ATOM	1213	CG1 VAL A 178	22.253	15.120	23.567	1.00	40.77	C
ATOM	1214	CG2 VAL A 178	24.035	13.484	24.083	1.00	41.33	C
ATOM	1215	C VAL A 178	20.608	12.913	22.524	1.00	40.74	C
ATOM	1216	O VAL A 178	20.715	12.801	21.305	1.00	40.65	O
ATOM	1217	N SER A 179	19.471	13.260	23.118	1.00	40.12	N
ATOM	1218	CA SER A 179	18.271	13.564	22.346	1.00	39.22	C
ATOM	1219	CB SER A 179	17.032	13.517	23.234	1.00	39.19	C
ATOM	1220	OG SER A 179	15.955	14.187	22.604	1.00	39.12	O
ATOM	1221	C SER A 179	18.397	14.957	21.751	1.00	38.78	C
ATOM	1222	O SER A 179	18.419	15.950	22.482	1.00	38.57	O
ATOM	1223	N LEU A 180	18.480	15.036	20.427	1.00	38.11	N
ATOM	1224	CA LEU A 180	18.602	16.330	19.772	1.00	37.12	C
ATOM	1225	CB LEU A 180	18.859	16.153	18.276	1.00	37.25	C
ATOM	1226	CG LEU A 180	20.159	15.430	17.903	1.00	37.36	C
ATOM	1227	CD1 LEU A 180	20.354	15.483	16.394	1.00	37.56	C
ATOM	1228	CD2 LEU A 180	21.344	16.082	18.615	1.00	37.57	C
ATOM	1229	C LEU A 180	17.355	17.173	19.995	1.00	36.72	C
ATOM	1230	O LEU A 180	17.433	18.398	20.045	1.00	36.33	O
ATOM	1231	N ASP A 181	16.203	16.523	20.136	1.00	36.44	N
ATOM	1232	CA ASP A 181	14.966	17.256	20.366	1.00	36.07	C

Figure 8W

ATOM	1233	CB	ASP	A	181	13.754	16.319	20.311	1.00	37.55	C
ATOM	1234	CG	ASP	A	181	13.486	15.790	18.909	1.00	38.95	C
ATOM	1235	OD1	ASP	A	181	13.589	16.570	17.937	1.00	39.74	O
ATOM	1236	OD2	ASP	A	181	13.158	14.594	18.777	1.00	40.38	O
ATOM	1237	C	ASP	A	181	15.014	17.971	21.714	1.00	34.99	C
ATOM	1238	O	ASP	A	181	14.491	19.074	21.859	1.00	34.62	O
ATOM	1239	N	ALA	A	182	15.638	17.337	22.702	1.00	34.20	N
ATOM	1240	CA	ALA	A	182	15.766	17.939	24.026	1.00	33.44	C
ATOM	1241	CB	ALA	A	182	16.388	16.937	25.003	1.00	33.26	C
ATOM	1242	C	ALA	A	182	16.645	19.186	23.910	1.00	32.88	C
ATOM	1243	O	ALA	A	182	16.362	20.216	24.514	1.00	32.37	O
ATOM	1244	N	LEU	A	183	17.714	19.085	23.124	1.00	32.52	N
ATOM	1245	CA	LEU	A	183	18.614	20.214	22.915	1.00	31.97	C
ATOM	1246	CB	LEU	A	183	19.823	19.796	22.080	1.00	32.53	C
ATOM	1247	CG	LEU	A	183	21.089	19.365	22.816	1.00	33.44	C
ATOM	1248	CD1	LEU	A	183	22.184	19.088	21.785	1.00	33.67	C
ATOM	1249	CD2	LEU	A	183	21.533	20.463	23.787	1.00	33.50	C
ATOM	1250	C	LEU	A	183	17.913	21.366	22.213	1.00	31.47	C
ATOM	1251	O	LEU	A	183	18.060	22.524	22.609	1.00	31.07	O
ATOM	1252	N	LYS	A	184	17.160	21.050	21.163	1.00	30.86	N
ATOM	1253	CA	LYS	A	184	16.443	22.075	20.413	1.00	31.16	C
ATOM	1254	CB	LYS	A	184	15.651	21.445	19.262	1.00	31.63	C
ATOM	1255	CG	LYS	A	184	16.513	20.868	18.158	1.00	32.93	C
ATOM	1256	CD	LYS	A	184	15.675	20.111	17.139	1.00	33.75	C
ATOM	1257	CE	LYS	A	184	16.556	19.416	16.115	1.00	34.92	C
ATOM	1258	NZ	LYS	A	184	15.750	18.568	15.178	1.00	35.78	N
ATOM	1259	C	LYS	A	184	15.487	22.824	21.328	1.00	30.89	C
ATOM	1260	O	LYS	A	184	15.307	24.033	21.199	1.00	30.37	O
ATOM	1261	N	ARG	A	185	14.869	22.090	22.244	1.00	30.97	N
ATOM	1262	CA	ARG	A	185	13.926	22.680	23.183	1.00	31.66	C
ATOM	1263	CB	ARG	A	185	13.260	21.576	24.011	1.00	32.95	C
ATOM	1264	CG	ARG	A	185	12.273	22.095	25.045	1.00	35.19	C
ATOM	1265	CD	ARG	A	185	11.071	22.763	24.385	1.00	36.95	C
ATOM	1266	NE	ARG	A	185	10.276	23.497	25.366	1.00	38.48	N
ATOM	1267	CZ	ARG	A	185	10.678	24.616	25.959	1.00	39.27	C
ATOM	1268	NH1	ARG	A	185	11.864	25.138	25.668	1.00	39.25	N
ATOM	1269	NH2	ARG	A	185	9.901	25.206	26.857	1.00	40.18	N
ATOM	1270	C	ARG	A	185	14.667	23.645	24.101	1.00	30.92	C
ATOM	1271	O	ARG	A	185	14.239	24.781	24.313	1.00	30.74	O
ATOM	1272	N	ILE	A	186	15.789	23.186	24.642	1.00	30.14	N
ATOM	1273	CA	ILE	A	186	16.585	24.022	25.528	1.00	29.32	C
ATOM	1274	CB	ILE	A	186	17.832	23.252	26.037	1.00	29.04	C
ATOM	1275	CG2	ILE	A	186	18.741	24.190	26.829	1.00	29.20	C
ATOM	1276	CG1	ILE	A	186	17.389	22.058	26.894	1.00	29.51	C
ATOM	1277	CD1	ILE	A	186	18.534	21.148	27.330	1.00	29.37	C
ATOM	1278	C	ILE	A	186	17.037	25.285	24.792	1.00	28.71	C
ATOM	1279	O	ILE	A	186	17.015	26.380	25.351	1.00	28.31	O
ATOM	1280	N	LEU	A	187	17.435	25.130	23.532	1.00	28.36	N
ATOM	1281	CA	LEU	A	187	17.911	26.257	22.733	1.00	28.42	C
ATOM	1282	CB	LEU	A	187	18.998	25.772	21.757	1.00	28.23	C
ATOM	1283	CG	LEU	A	187	20.268	25.207	22.409	1.00	28.51	C
ATOM	1284	CD1	LEU	A	187	21.125	24.483	21.376	1.00	28.72	C
ATOM	1285	CD2	LEU	A	187	21.049	26.337	23.051	1.00	28.48	C
ATOM	1286	C	LEU	A	187	16.814	26.996	21.956	1.00	28.77	C
ATOM	1287	O	LEU	A	187	17.105	27.913	21.189	1.00	27.81	O
ATOM	1288	N	ARG	A	188	15.559	26.611	22.173	1.00	29.44	N
ATOM	1289	CA	ARG	A	188	14.437	27.232	21.470	1.00	30.59	C
ATOM	1290	CB	ARG	A	188	13.096	26.759	22.066	1.00	31.00	C

Figure 8X

ATOM	1291	CG	ARG A 188	11.880	27.044	21.161	1.00	31.92	C
ATOM	1292	CD	ARG A 188	10.591	26.415	21.694	1.00	32.72	C
ATOM	1293	NE	ARG A 188	10.065	27.111	22.869	1.00	33.40	N
ATOM	1294	CZ	ARG A 188	8.896	26.834	23.440	1.00	33.80	C
ATOM	1295	NH1	ARG A 188	8.127	25.871	22.951	1.00	34.90	N
ATOM	1296	NH2	ARG A 188	8.486	27.525	24.492	1.00	34.07	N
ATOM	1297	C	ARG A 188	14.522	28.761	21.479	1.00	31.15	C
ATOM	1298	O	ARG A 188	14.384	29.394	20.437	1.00	31.37	O
ATOM	1299	N	PRO A 189	14.778	29.373	22.652	1.00	31.69	N
ATOM	1300	CD	PRO A 189	15.085	28.750	23.953	1.00	31.58	C
ATOM	1301	CA	PRO A 189	14.877	30.835	22.741	1.00	32.00	C
ATOM	1302	CB	PRO A 189	15.460	31.055	24.134	1.00	32.34	C
ATOM	1303	CG	PRO A 189	14.931	29.907	24.908	1.00	32.12	C
ATOM	1304	C	PRO A 189	15.781	31.423	21.661	1.00	32.69	C
ATOM	1305	O	PRO A 189	15.444	32.428	21.024	1.00	33.41	O
ATOM	1306	N	TRP A 190	16.937	30.795	21.467	1.00	32.33	N
ATOM	1307	CA	TRP A 190	17.902	31.251	20.478	1.00	32.66	C
ATOM	1308	CB	TRP A 190	19.276	30.637	20.767	1.00	31.96	C
ATOM	1309	CG	TRP A 190	19.946	31.238	21.972	1.00	31.74	C
ATOM	1310	CD2	TRP A 190	21.261	30.942	22.461	1.00	31.19	C
ATOM	1311	CE2	TRP A 190	21.475	31.752	23.597	1.00	31.14	C
ATOM	1312	CE3	TRP A 190	22.278	30.070	22.048	1.00	31.17	C
ATOM	1313	CD1	TRP A 190	19.432	32.187	22.808	1.00	31.47	C
ATOM	1314	NE1	TRP A 190	20.343	32.502	23.786	1.00	31.75	N
ATOM	1315	CZ2	TRP A 190	22.666	31.719	24.327	1.00	30.64	C
ATOM	1316	CZ3	TRP A 190	23.468	30.038	22.777	1.00	30.63	C
ATOM	1317	CH2	TRP A 190	23.647	30.858	23.903	1.00	30.76	C
ATOM	1318	C	TRP A 190	17.473	30.936	19.053	1.00	32.80	C
ATOM	1319	O	TRP A 190	17.678	31.739	18.151	1.00	33.14	O
ATOM	1320	N	LEU A 191	16.875	29.769	18.853	1.00	33.23	N
ATOM	1321	CA	LEU A 191	16.420	29.384	17.525	1.00	34.12	C
ATOM	1322	CB	LEU A 191	15.997	27.913	17.514	1.00	34.10	C
ATOM	1323	CG	LEU A 191	17.133	26.920	17.767	1.00	34.63	C
ATOM	1324	CD1	LEU A 191	16.571	25.512	17.926	1.00	34.77	C
ATOM	1325	CD2	LEU A 191	18.124	26.985	16.605	1.00	34.84	C
ATOM	1326	C	LEU A 191	15.264	30.262	17.047	1.00	34.32	C
ATOM	1327	O	LEU A 191	14.943	30.270	15.864	1.00	34.60	O
ATOM	1328	N	ARG A 192	14.640	31.000	17.962	1.00	34.66	N
ATOM	1329	CA	ARG A 192	13.532	31.879	17.584	1.00	35.36	C
ATOM	1330	CB	ARG A 192	12.417	31.827	18.630	1.00	35.21	C
ATOM	1331	CG	ARG A 192	11.568	30.569	18.575	1.00	34.86	C
ATOM	1332	CD	ARG A 192	10.556	30.560	19.709	1.00	34.91	C
ATOM	1333	NE	ARG A 192	9.624	29.440	19.608	1.00	35.35	N
ATOM	1334	CZ	ARG A 192	8.670	29.181	20.500	1.00	34.80	C
ATOM	1335	NH1	ARG A 192	8.528	29.960	21.563	1.00	34.29	N
ATOM	1336	NH2	ARG A 192	7.851	28.152	20.318	1.00	34.13	N
ATOM	1337	C	ARG A 192	13.966	33.328	17.393	1.00	35.93	C
ATOM	1338	O	ARG A 192	13.130	34.204	17.168	1.00	36.00	O
ATOM	1339	N	MET A 193	15.270	33.579	17.479	1.00	36.28	N
ATOM	1340	CA	MET A 193	15.797	34.930	17.316	1.00	36.54	C
ATOM	1341	CB	MET A 193	17.139	35.070	18.045	1.00	36.79	C
ATOM	1342	CG	MET A 193	17.038	35.165	19.564	1.00	36.88	C
ATOM	1343	SD	MET A 193	18.669	35.278	20.352	1.00	37.53	S
ATOM	1344	CE	MET A 193	19.079	37.031	20.122	1.00	36.86	C
ATOM	1345	C	MET A 193	15.987	35.306	15.848	1.00	36.67	C
ATOM	1346	O	MET A 193	16.368	34.467	15.025	1.00	36.46	O
ATOM	1347	N	LYS A 194	15.715	36.570	15.526	1.00	37.01	N
ATOM	1348	CA	LYS A 194	15.889	37.067	14.163	1.00	37.69	C

Figure 8Y

ATOM	1349	CB	LYS A 194	15.478	38.545	14.064	1.00	38.05	C
ATOM	1350	CG	LYS A 194	15.613	39.121	12.654	1.00	38.80	C
ATOM	1351	CD	LYS A 194	16.261	40.515	12.623	1.00	39.92	C
ATOM	1352	CE	LYS A 194	15.284	41.663	12.887	1.00	40.54	C
ATOM	1353	NZ	LYS A 194	14.817	41.801	14.299	1.00	41.22	N
ATOM	1354	C	LYS A 194	17.374	36.928	13.832	1.00	37.73	C
ATOM	1355	O	LYS A 194	17.757	36.399	12.787	1.00	37.39	O
ATOM	1356	N	GLU A 195	18.206	37.413	14.744	1.00	38.33	N
ATOM	1357	CA	GLU A 195	19.650	37.332	14.574	1.00	38.43	C
ATOM	1358	CB	GLU A 195	20.248	38.722	14.361	1.00	39.41	C
ATOM	1359	CG	GLU A 195	21.766	38.698	14.281	1.00	41.23	C
ATOM	1360	CD	GLU A 195	22.348	39.961	13.690	1.00	42.54	C
ATOM	1361	OE1	GLU A 195	21.953	41.066	14.125	1.00	43.29	O
ATOM	1362	OE2	GLU A 195	23.211	39.844	12.792	1.00	43.45	O
ATOM	1363	C	GLU A 195	20.268	36.688	15.810	1.00	37.55	C
ATOM	1364	O	GLU A 195	20.596	37.368	16.781	1.00	37.40	O
ATOM	1365	N	PRO A 196	20.422	35.358	15.792	1.00	36.88	N
ATOM	1366	CD	PRO A 196	20.121	34.417	14.697	1.00	37.02	C
ATOM	1367	CA	PRO A 196	21.006	34.659	16.940	1.00	36.26	C
ATOM	1368	CB	PRO A 196	20.744	33.191	16.611	1.00	36.49	C
ATOM	1369	CG	PRO A 196	20.877	33.165	15.122	1.00	37.04	C
ATOM	1370	C	PRO A 196	22.491	34.973	17.078	1.00	35.39	C
ATOM	1371	O	PRO A 196	23.105	35.530	16.166	1.00	35.42	O
ATOM	1372	N	PRO A 197	23.089	34.626	18.228	1.00	34.89	N
ATOM	1373	CD	PRO A 197	22.518	33.900	19.374	1.00	34.65	C
ATOM	1374	CA	PRO A 197	24.517	34.894	18.438	1.00	34.16	C
ATOM	1375	CB	PRO A 197	24.789	34.288	19.820	1.00	34.06	C
ATOM	1376	CG	PRO A 197	23.457	34.284	20.480	1.00	34.48	C
ATOM	1377	C	PRO A 197	25.334	34.192	17.366	1.00	33.22	C
ATOM	1378	O	PRO A 197	25.018	33.067	16.991	1.00	33.54	O
ATOM	1379	N	ASP A 198	26.376	34.838	16.857	1.00	32.64	N
ATOM	1380	CA	ASP A 198	27.200	34.173	15.861	1.00	32.00	C
ATOM	1381	CB	ASP A 198	27.669	35.169	14.782	1.00	32.92	C
ATOM	1382	CG	ASP A 198	28.741	36.136	15.269	1.00	34.20	C
ATOM	1383	OD1	ASP A 198	28.889	36.334	16.497	1.00	34.32	O
ATOM	1384	OD2	ASP A 198	29.433	36.718	14.394	1.00	34.48	O
ATOM	1385	C	ASP A 198	28.379	33.517	16.590	1.00	30.70	C
ATOM	1386	O	ASP A 198	29.151	32.754	16.008	1.00	30.48	O
ATOM	1387	N	THR A 199	28.477	33.797	17.885	1.00	29.73	N
ATOM	1388	CA	THR A 199	29.541	33.245	18.728	1.00	28.32	C
ATOM	1389	CB	THR A 199	30.609	34.317	19.009	1.00	28.44	C
ATOM	1390	OG1	THR A 199	31.040	34.892	17.767	1.00	28.45	O
ATOM	1391	CG2	THR A 199	31.817	33.703	19.712	1.00	27.68	C
ATOM	1392	C	THR A 199	28.925	32.774	20.050	1.00	27.54	C
ATOM	1393	O	THR A 199	28.258	33.544	20.731	1.00	27.62	O
ATOM	1394	N	VAL A 200	29.137	31.509	20.408	1.00	26.67	N
ATOM	1395	CA	VAL A 200	28.573	30.975	21.645	1.00	25.45	C
ATOM	1396	CB	VAL A 200	27.603	29.794	21.368	1.00	25.29	C
ATOM	1397	CG1	VAL A 200	27.103	29.205	22.688	1.00	24.41	C
ATOM	1398	CG2	VAL A 200	26.410	30.273	20.533	1.00	25.16	C
ATOM	1399	C	VAL A 200	29.665	30.485	22.586	1.00	24.96	C
ATOM	1400	O	VAL A 200	30.457	29.615	22.228	1.00	25.00	O
ATOM	1401	N	VAL A 201	29.692	31.050	23.787	1.00	24.00	N
ATOM	1402	CA	VAL A 201	30.672	30.680	24.803	1.00	24.07	C
ATOM	1403	CB	VAL A 201	30.931	31.850	25.784	1.00	23.91	C
ATOM	1404	CG1	VAL A 201	31.872	31.401	26.907	1.00	23.25	C
ATOM	1405	CG2	VAL A 201	31.527	33.032	25.035	1.00	23.70	C
ATOM	1406	C	VAL A 201	30.151	29.506	25.620	1.00	23.96	C

Figure 8Z

ATOM	1407	O	VAL A 201	29.044	29.551	26.144	1.00	24.03	O
ATOM	1408	N	LEU A 202	30.937	28.445	25.711	1.00	24.28	N
ATOM	1409	CA	LEU A 202	30.531	27.304	26.519	1.00	24.52	C
ATOM	1410	CB	LEU A 202	31.091	26.010	25.927	1.00	24.85	C
ATOM	1411	CG	LEU A 202	30.634	25.793	24.479	1.00	24.66	C
ATOM	1412	CD1	LEU A 202	31.126	24.450	23.954	1.00	25.52	C
ATOM	1413	CD2	LEU A 202	29.115	25.869	24.418	1.00	24.68	C
ATOM	1414	C	LEU A 202	31.123	27.596	27.890	1.00	24.97	C
ATOM	1415	O	LEU A 202	32.318	27.377	28.124	1.00	25.27	O
ATOM	1416	N	GLY A 203	30.283	28.132	28.772	1.00	25.47	N
ATOM	1417	CA	GLY A 203	30.708	28.498	30.114	1.00	26.68	C
ATOM	1418	C	GLY A 203	30.468	27.425	31.157	1.00	27.26	C
ATOM	1419	O	GLY A 203	30.282	27.711	32.337	1.00	28.58	O
ATOM	1420	N	CYS A 204	30.441	26.182	30.704	1.00	27.73	N
ATOM	1421	CA	CYS A 204	30.273	25.034	31.582	1.00	27.40	C
ATOM	1422	CB	CYS A 204	28.824	24.551	31.568	1.00	28.28	C
ATOM	1423	SG	CYS A 204	28.483	23.277	32.788	1.00	29.75	S
ATOM	1424	C	CYS A 204	31.200	23.998	30.959	1.00	26.65	C
ATOM	1425	O	CYS A 204	31.088	23.705	29.768	1.00	26.53	O
ATOM	1426	N	THR A 205	32.130	23.455	31.740	1.00	25.96	N
ATOM	1427	CA	THR A 205	33.072	22.481	31.188	1.00	25.54	C
ATOM	1428	CB	THR A 205	34.179	22.112	32.213	1.00	25.97	C
ATOM	1429	OG1	THR A 205	33.604	21.417	33.326	1.00	25.47	O
ATOM	1430	CG2	THR A 205	34.866	23.376	32.720	1.00	26.26	C
ATOM	1431	C	THR A 205	32.398	21.209	30.671	1.00	25.02	C
ATOM	1432	O	THR A 205	33.020	20.402	29.978	1.00	25.08	O
ATOM	1433	N	HIS A 206	31.126	21.024	31.004	1.00	25.00	N
ATOM	1434	CA	HIS A 206	30.389	19.861	30.507	1.00	25.50	C
ATOM	1435	CB	HIS A 206	29.096	19.644	31.301	1.00	25.48	C
ATOM	1436	CG	HIS A 206	29.243	18.752	32.496	1.00	25.77	C
ATOM	1437	CD2	HIS A 206	28.818	17.485	32.715	1.00	26.12	C
ATOM	1438	ND1	HIS A 206	29.853	19.158	33.664	1.00	26.12	N
ATOM	1439	CE1	HIS A 206	29.794	18.182	34.552	1.00	26.27	C
ATOM	1440	NE2	HIS A 206	29.171	17.156	34.001	1.00	25.97	N
ATOM	1441	C	HIS A 206	29.990	20.056	29.038	1.00	25.23	C
ATOM	1442	O	HIS A 206	29.915	19.096	28.261	1.00	24.85	O
ATOM	1443	N	PHE A 207	29.739	21.305	28.661	1.00	25.12	N
ATOM	1444	CA	PHE A 207	29.259	21.602	27.314	1.00	24.78	C
ATOM	1445	CB	PHE A 207	28.765	23.059	27.262	1.00	24.50	C
ATOM	1446	CG	PHE A 207	27.625	23.346	28.223	1.00	24.94	C
ATOM	1447	CD1	PHE A 207	27.171	24.651	28.422	1.00	24.92	C
ATOM	1448	CD2	PHE A 207	27.019	22.311	28.945	1.00	25.02	C
ATOM	1449	CE1	PHE A 207	26.137	24.924	29.322	1.00	24.91	C
ATOM	1450	CE2	PHE A 207	25.984	22.574	29.848	1.00	24.68	C
ATOM	1451	CZ	PHE A 207	25.544	23.881	30.037	1.00	24.50	C
ATOM	1452	C	PHE A 207	30.139	21.263	26.117	1.00	24.23	C
ATOM	1453	O	PHE A 207	29.624	20.794	25.105	1.00	24.49	O
ATOM	1454	N	PRO A 208	31.467	21.485	26.199	1.00	24.05	N
ATOM	1455	CD	PRO A 208	32.268	22.196	27.216	1.00	23.52	C
ATOM	1456	CA	PRO A 208	32.292	21.140	25.035	1.00	23.79	C
ATOM	1457	CB	PRO A 208	33.709	21.443	25.519	1.00	23.37	C
ATOM	1458	CG	PRO A 208	33.497	22.617	26.415	1.00	23.62	C
ATOM	1459	C	PRO A 208	32.111	19.665	24.650	1.00	23.75	C
ATOM	1460	O	PRO A 208	32.307	19.283	23.496	1.00	23.71	O
ATOM	1461	N	LEU A 209	31.731	18.846	25.628	1.00	24.35	N
ATOM	1462	CA	LEU A 209	31.510	17.416	25.400	1.00	24.73	C
ATOM	1463	CB	LEU A 209	31.225	16.703	26.730	1.00	24.44	C
ATOM	1464	CG	LEU A 209	32.351	16.705	27.763	1.00	24.17	C

Figure 8AA

ATOM	1465	CD1 LEU A 209	31.856	16.084	29.055	1.00	24.39	C
ATOM	1466	CD2 LEU A 209	33.546	15.940	27.213	1.00	25.04	C
ATOM	1467	C LEU A 209	30.330	17.193	24.453	1.00	24.96	C
ATOM	1468	O LEU A 209	30.185	16.115	23.871	1.00	25.40	O
ATOM	1469	N LEU A 210	29.492	18.214	24.311	1.00	25.40	N
ATOM	1470	CA LEU A 210	28.313	18.150	23.445	1.00	26.09	C
ATOM	1471	CB LEU A 210	27.091	18.700	24.187	1.00	26.08	C
ATOM	1472	CG LEU A 210	26.612	17.931	25.424	1.00	26.43	C
ATOM	1473	CD1 LEU A 210	25.590	18.754	26.165	1.00	26.49	C
ATOM	1474	CD2 LEU A 210	26.031	16.587	25.006	1.00	26.75	C
ATOM	1475	C LEU A 210	28.513	18.956	22.165	1.00	26.97	C
ATOM	1476	O LEU A 210	27.551	19.238	21.443	1.00	26.49	O
ATOM	1477	N GLN A 211	29.754	19.325	21.877	1.00	27.84	N
ATOM	1478	CA GLN A 211	30.018	20.125	20.689	1.00	29.76	C
ATOM	1479	CB GLN A 211	31.525	20.241	20.426	1.00	31.43	C
ATOM	1480	CG GLN A 211	31.822	21.058	19.169	1.00	35.04	C
ATOM	1481	CD GLN A 211	33.278	21.444	19.027	1.00	36.79	C
ATOM	1482	OE1 GLN A 211	33.814	22.205	19.840	1.00	38.21	O
ATOM	1483	NE2 GLN A 211	33.929	20.926	17.985	1.00	37.92	N
ATOM	1484	C GLN A 211	29.319	19.624	19.428	1.00	29.78	C
ATOM	1485	O GLN A 211	28.629	20.390	18.757	1.00	29.75	O
ATOM	1486	N GLU A 212	29.482	18.346	19.104	1.00	30.23	N
ATOM	1487	CA GLU A 212	28.857	17.805	17.898	1.00	31.41	C
ATOM	1488	CB GLU A 212	29.173	16.312	17.750	1.00	33.48	C
ATOM	1489	CG GLU A 212	28.789	15.739	16.391	1.00	36.83	C
ATOM	1490	CD GLU A 212	29.709	14.609	15.940	1.00	38.98	C
ATOM	1491	OE1 GLU A 212	30.921	14.860	15.738	1.00	40.36	O
ATOM	1492	OE2 GLU A 212	29.223	13.468	15.786	1.00	40.67	O
ATOM	1493	C GLU A 212	27.348	18.023	17.894	1.00	30.99	C
ATOM	1494	O GLU A 212	26.791	18.548	16.928	1.00	30.68	O
ATOM	1495	N GLU A 213	26.692	17.628	18.983	1.00	30.23	N
ATOM	1496	CA GLU A 213	25.253	17.788	19.103	1.00	29.95	C
ATOM	1497	CB GLU A 213	24.760	17.214	20.436	1.00	30.26	C
ATOM	1498	CG GLU A 213	24.844	15.697	20.570	1.00	31.58	C
ATOM	1499	CD GLU A 213	26.237	15.179	20.909	1.00	32.64	C
ATOM	1500	OE1 GLU A 213	27.150	15.992	21.177	1.00	32.85	O
ATOM	1501	OE2 GLU A 213	26.412	13.942	20.915	1.00	33.12	O
ATOM	1502	C GLU A 213	24.840	19.258	19.005	1.00	29.41	C
ATOM	1503	O GLU A 213	23.857	19.587	18.338	1.00	29.01	O
ATOM	1504	N LEU A 214	25.580	20.137	19.681	1.00	28.84	N
ATOM	1505	CA LEU A 214	25.268	21.567	19.656	1.00	28.43	C
ATOM	1506	CB LEU A 214	26.216	22.348	20.570	1.00	28.13	C
ATOM	1507	CG LEU A 214	25.977	22.173	22.075	1.00	27.63	C
ATOM	1508	CD1 LEU A 214	27.109	22.818	22.862	1.00	27.49	C
ATOM	1509	CD2 LEU A 214	24.626	22.791	22.447	1.00	27.85	C
ATOM	1510	C LEU A 214	25.348	22.136	18.247	1.00	28.83	C
ATOM	1511	O LEU A 214	24.507	22.937	17.845	1.00	27.87	O
ATOM	1512	N LEU A 215	26.356	21.713	17.498	1.00	29.30	N
ATOM	1513	CA LEU A 215	26.528	22.202	16.142	1.00	30.96	C
ATOM	1514	CB LEU A 215	27.918	21.822	15.630	1.00	30.54	C
ATOM	1515	CG LEU A 215	29.025	22.593	16.358	1.00	30.81	C
ATOM	1516	CD1 LEU A 215	30.386	22.124	15.895	1.00	30.80	C
ATOM	1517	CD2 LEU A 215	28.858	24.084	16.093	1.00	30.46	C
ATOM	1518	C LEU A 215	25.440	21.709	15.191	1.00	31.93	C
ATOM	1519	O LEU A 215	25.211	22.308	14.145	1.00	32.43	O
ATOM	1520	N GLN A 216	24.762	20.625	15.551	1.00	33.13	N
ATOM	1521	CA GLN A 216	23.695	20.108	14.701	1.00	34.56	C
ATOM	1522	CB GLN A 216	23.435	18.625	14.988	1.00	35.66	C

Figure 8BB

ATOM	1523	CG	GLN A 216	24.610	17.700	14.728	1.00	37.89	C
ATOM	1524	CD	GLN A 216	24.241	16.238	14.906	1.00	39.33	C
ATOM	1525	OE1	GLN A 216	23.524	15.665	14.083	1.00	41.09	O
ATOM	1526	NE2	GLN A 216	24.717	15.629	15.988	1.00	39.66	N
ATOM	1527	C	GLN A 216	22.406	20.888	14.939	1.00	34.80	C
ATOM	1528	O	GLN A 216	21.569	21.014	14.047	1.00	35.06	O
ATOM	1529	N	VAL A 217	22.258	21.416	16.148	1.00	34.71	N
ATOM	1530	CA	VAL A 217	21.064	22.156	16.531	1.00	35.07	C
ATOM	1531	CB	VAL A 217	20.710	21.866	18.016	1.00	35.06	C
ATOM	1532	CG1	VAL A 217	19.504	22.685	18.451	1.00	35.49	C
ATOM	1533	CG2	VAL A 217	20.435	20.390	18.192	1.00	35.11	C
ATOM	1534	C	VAL A 217	21.164	23.664	16.336	1.00	35.24	C
ATOM	1535	O	VAL A 217	20.199	24.304	15.925	1.00	34.92	O
ATOM	1536	N	LEU A 218	22.326	24.233	16.640	1.00	35.48	N
ATOM	1537	CA	LEU A 218	22.520	25.674	16.511	1.00	35.98	C
ATOM	1538	CB	LEU A 218	23.837	26.097	17.175	1.00	35.20	C
ATOM	1539	CG	LEU A 218	23.954	25.958	18.699	1.00	34.74	C
ATOM	1540	CD1	LEU A 218	25.415	26.086	19.099	1.00	33.85	C
ATOM	1541	CD2	LEU A 218	23.107	27.018	19.395	1.00	34.29	C
ATOM	1542	C	LEU A 218	22.520	26.143	15.059	1.00	36.85	C
ATOM	1543	O	LEU A 218	22.923	25.408	14.154	1.00	36.56	O
ATOM	1544	N	PRO A 219	22.062	27.382	14.819	1.00	37.78	N
ATOM	1545	CD	PRO A 219	21.542	28.360	15.788	1.00	38.25	C
ATOM	1546	CA	PRO A 219	22.026	27.929	13.461	1.00	38.69	C
ATOM	1547	CB	PRO A 219	21.507	29.354	13.664	1.00	38.57	C
ATOM	1548	CG	PRO A 219	21.840	29.660	15.088	1.00	38.75	C
ATOM	1549	C	PRO A 219	23.390	27.895	12.785	1.00	39.23	C
ATOM	1550	O	PRO A 219	24.422	28.136	13.419	1.00	39.41	O
ATOM	1551	N	GLU A 220	23.381	27.591	11.494	1.00	39.72	N
ATOM	1552	CA	GLU A 220	24.600	27.502	10.698	1.00	40.27	C
ATOM	1553	CB	GLU A 220	24.250	27.481	9.207	1.00	41.80	C
ATOM	1554	CG	GLU A 220	22.941	26.777	8.874	1.00	43.87	C
ATOM	1555	CD	GLU A 220	22.413	27.165	7.498	1.00	45.18	C
ATOM	1556	OE1	GLU A 220	23.087	26.854	6.492	1.00	45.89	O
ATOM	1557	OE2	GLU A 220	21.325	27.789	7.425	1.00	45.96	O
ATOM	1558	C	GLU A 220	25.505	28.698	10.972	1.00	39.71	C
ATOM	1559	O	GLU A 220	25.023	29.808	11.211	1.00	40.05	O
ATOM	1560	N	GLY A 221	26.813	28.466	10.946	1.00	38.99	N
ATOM	1561	CA	GLY A 221	27.758	29.547	11.162	1.00	38.23	C
ATOM	1562	C	GLY A 221	28.059	29.947	12.595	1.00	37.79	C
ATOM	1563	O	GLY A 221	28.875	30.842	12.818	1.00	37.76	O
ATOM	1564	N	THR A 222	27.414	29.308	13.566	1.00	36.92	N
ATOM	1565	CA	THR A 222	27.669	29.637	14.967	1.00	36.06	C
ATOM	1566	CB	THR A 222	26.600	29.039	15.911	1.00	36.28	C
ATOM	1567	OG1	THR A 222	25.286	29.441	15.489	1.00	35.84	O
ATOM	1568	CG2	THR A 222	26.836	29.530	17.331	1.00	35.92	C
ATOM	1569	C	THR A 222	29.031	29.082	15.375	1.00	35.26	C
ATOM	1570	O	THR A 222	29.325	27.904	15.159	1.00	35.42	O
ATOM	1571	N	ARG A 223	29.864	29.934	15.962	1.00	33.89	N
ATOM	1572	CA	ARG A 223	31.187	29.515	16.395	1.00	32.73	C
ATOM	1573	CB	ARG A 223	32.213	30.593	16.048	1.00	33.48	C
ATOM	1574	CG	ARG A 223	33.634	30.257	16.448	1.00	34.74	C
ATOM	1575	CD	ARG A 223	34.572	31.304	15.885	1.00	35.80	C
ATOM	1576	NE	ARG A 223	35.976	31.038	16.180	1.00	36.83	N
ATOM	1577	CZ	ARG A 223	36.975	31.735	15.653	1.00	36.90	C
ATOM	1578	NH1	ARG A 223	36.709	32.722	14.808	1.00	37.42	N
ATOM	1579	NH2	ARG A 223	38.229	31.460	15.974	1.00	37.62	N
ATOM	1580	C	ARG A 223	31.204	29.254	17.896	1.00	31.22	C

Figure 8CC

ATOM	1581	O	ARG A 223	30.823	30.118	18.684	1.00	31.14	O
ATOM	1582	N	LEU A 224	31.649	28.063	18.287	1.00	29.77	N
ATOM	1583	CA	LEU A 224	31.714	27.702	19.698	1.00	28.63	C
ATOM	1584	CB	LEU A 224	31.501	26.196	19.885	1.00	28.14	C
ATOM	1585	CG	LEU A 224	30.191	25.617	19.343	1.00	28.31	C
ATOM	1586	CD1	LEU A 224	30.145	24.122	19.618	1.00	27.77	C
ATOM	1587	CD2	LEU A 224	29.011	26.321	19.990	1.00	28.16	C
ATOM	1588	C	LEU A 224	33.074	28.088	20.267	1.00	28.22	C
ATOM	1589	O	LEU A 224	34.113	27.855	19.646	1.00	27.72	O
ATOM	1590	N	VAL A 225	33.055	28.678	21.452	1.00	27.59	N
ATOM	1591	CA	VAL A 225	34.279	29.094	22.114	1.00	27.22	C
ATOM	1592	CB	VAL A 225	34.386	30.638	22.165	1.00	27.19	C
ATOM	1593	CG1	VAL A 225	35.669	31.047	22.875	1.00	27.27	C
ATOM	1594	CG2	VAL A 225	34.346	31.219	20.755	1.00	27.27	C
ATOM	1595	C	VAL A 225	34.315	28.573	23.553	1.00	27.00	C
ATOM	1596	O	VAL A 225	33.343	28.707	24.291	1.00	26.02	O
ATOM	1597	N	ASP A 226	35.427	27.965	23.946	1.00	27.26	N
ATOM	1598	CA	ASP A 226	35.555	27.505	25.319	1.00	28.37	C
ATOM	1599	CB	ASP A 226	35.210	26.008	25.469	1.00	29.27	C
ATOM	1600	CG	ASP A 226	36.130	25.095	24.689	1.00	30.58	C
ATOM	1601	OD1	ASP A 226	37.361	25.166	24.874	1.00	31.43	O
ATOM	1602	OD2	ASP A 226	35.613	24.283	23.891	1.00	32.27	O
ATOM	1603	C	ASP A 226	36.952	27.818	25.835	1.00	28.68	C
ATOM	1604	O	ASP A 226	37.767	28.418	25.126	1.00	28.29	O
ATOM	1605	N	SER A 227	37.222	27.409	27.067	1.00	29.15	N
ATOM	1606	CA	SER A 227	38.493	27.693	27.730	1.00	30.16	C
ATOM	1607	CB	SER A 227	38.212	28.003	29.200	1.00	30.84	C
ATOM	1608	OG	SER A 227	37.330	29.105	29.315	1.00	33.08	O
ATOM	1609	C	SER A 227	39.568	26.613	27.662	1.00	29.90	C
ATOM	1610	O	SER A 227	40.696	26.833	28.118	1.00	30.24	O
ATOM	1611	N	GLY A 228	39.221	25.467	27.089	1.00	29.54	N
ATOM	1612	CA	GLY A 228	40.133	24.333	27.004	1.00	29.07	C
ATOM	1613	C	GLY A 228	41.586	24.537	26.605	1.00	29.10	C
ATOM	1614	O	GLY A 228	42.494	24.267	27.400	1.00	28.05	O
ATOM	1615	N	ALA A 229	41.810	24.983	25.368	1.00	28.66	N
ATOM	1616	CA	ALA A 229	43.161	25.208	24.868	1.00	28.46	C
ATOM	1617	CB	ALA A 229	43.113	25.634	23.399	1.00	28.89	C
ATOM	1618	C	ALA A 229	43.900	26.257	25.694	1.00	28.23	C
ATOM	1619	O	ALA A 229	45.095	26.127	25.934	1.00	28.75	O
ATOM	1620	N	ALA A 230	43.191	27.290	26.135	1.00	28.21	N
ATOM	1621	CA	ALA A 230	43.820	28.341	26.937	1.00	28.47	C
ATOM	1622	CB	ALA A 230	42.872	29.512	27.106	1.00	28.62	C
ATOM	1623	C	ALA A 230	44.248	27.821	28.309	1.00	29.04	C
ATOM	1624	O	ALA A 230	45.253	28.281	28.871	1.00	28.26	O
ATOM	1625	N	ILE A 231	43.476	26.874	28.850	1.00	28.95	N
ATOM	1626	CA	ILE A 231	43.785	26.281	30.149	1.00	29.12	C
ATOM	1627	CB	ILE A 231	42.651	25.351	30.636	1.00	29.08	C
ATOM	1628	CG2	ILE A 231	43.053	24.671	31.953	1.00	28.24	C
ATOM	1629	CG1	ILE A 231	41.364	26.152	30.804	1.00	29.21	C
ATOM	1630	CD1	ILE A 231	41.467	27.238	31.820	1.00	28.47	C
ATOM	1631	C	ILE A 231	45.035	25.442	29.986	1.00	29.33	C
ATOM	1632	O	ILE A 231	45.915	25.428	30.850	1.00	29.46	O
ATOM	1633	N	ALA A 232	45.097	24.729	28.870	1.00	29.68	N
ATOM	1634	CA	ALA A 232	46.237	23.884	28.566	1.00	30.26	C
ATOM	1635	CB	ALA A 232	46.030	23.206	27.223	1.00	30.00	C
ATOM	1636	C	ALA A 232	47.493	24.764	28.538	1.00	31.19	C
ATOM	1637	O	ALA A 232	48.487	24.458	29.202	1.00	31.16	O
ATOM	1638	N	ARG A 233	47.437	25.863	27.784	1.00	31.62	N

Figure 8DD

ATOM	1639	CA	ARG A 233	48.576	26.776	27.695	1.00	32.55	C
ATOM	1640	CB	ARG A 233	48.273	27.932	26.729	1.00	32.86	C
ATOM	1641	CG	ARG A 233	48.187	27.516	25.259	1.00	32.98	C
ATOM	1642	CD	ARG A 233	48.181	28.745	24.352	1.00	34.06	C
ATOM	1643	NE	ARG A 233	46.982	29.563	24.530	1.00	34.89	N
ATOM	1644	CZ	ARG A 233	45.818	29.316	23.934	1.00	35.40	C
ATOM	1645	NH1	ARG A 233	45.697	28.281	23.115	1.00	35.59	N
ATOM	1646	NH2	ARG A 233	44.770	30.094	24.168	1.00	35.89	N
ATOM	1647	C	ARG A 233	48.952	27.332	29.069	1.00	32.57	C
ATOM	1648	O	ARG A 233	50.129	27.422	29.402	1.00	32.69	O
ATOM	1649	N	ARG A 234	47.957	27.702	29.869	1.00	32.61	N
ATOM	1650	CA	ARG A 234	48.229	28.229	31.206	1.00	32.84	C
ATOM	1651	CB	ARG A 234	46.934	28.713	31.861	1.00	32.78	C
ATOM	1652	CG	ARG A 234	47.107	29.235	33.280	1.00	33.27	C
ATOM	1653	CD	ARG A 234	48.098	30.400	33.357	1.00	33.63	C
ATOM	1654	NE	ARG A 234	48.091	31.010	34.685	1.00	34.67	N
ATOM	1655	CZ	ARG A 234	48.883	32.009	35.060	1.00	34.84	C
ATOM	1656	NH1	ARG A 234	49.759	32.519	34.204	1.00	35.01	N
ATOM	1657	NH2	ARG A 234	48.794	32.502	36.289	1.00	35.15	N
ATOM	1658	C	ARG A 234	48.885	27.155	32.082	1.00	33.23	C
ATOM	1659	O	ARG A 234	49.760	27.458	32.901	1.00	33.10	O
ATOM	1660	N	THR A 235	48.464	25.906	31.897	1.00	32.93	N
ATOM	1661	CA	THR A 235	49.007	24.778	32.652	1.00	33.19	C
ATOM	1662	CB	THR A 235	48.201	23.486	32.368	1.00	32.74	C
ATOM	1663	OG1	THR A 235	46.879	23.637	32.899	1.00	32.01	O
ATOM	1664	CG2	THR A 235	48.867	22.262	33.013	1.00	32.30	C
ATOM	1665	C	THR A 235	50.475	24.564	32.290	1.00	33.74	C
ATOM	1666	O	THR A 235	51.327	24.396	33.170	1.00	33.08	O
ATOM	1667	N	ALA A 236	50.767	24.586	30.993	1.00	34.60	N
ATOM	1668	CA	ALA A 236	52.135	24.415	30.519	1.00	35.65	C
ATOM	1669	CB	ALA A 236	52.163	24.387	28.994	1.00	35.86	C
ATOM	1670	C	ALA A 236	53.021	25.548	31.042	1.00	36.35	C
ATOM	1671	O	ALA A 236	54.180	25.328	31.388	1.00	36.64	O
ATOM	1672	N	TRP A 237	52.480	26.761	31.109	1.00	37.16	N
ATOM	1673	CA	TRP A 237	53.261	27.893	31.599	1.00	38.00	C
ATOM	1674	CB	TRP A 237	52.509	29.208	31.380	1.00	38.98	C
ATOM	1675	CG	TRP A 237	53.355	30.429	31.649	1.00	40.50	C
ATOM	1676	CD2	TRP A 237	53.400	31.199	32.859	1.00	40.98	C
ATOM	1677	CE2	TRP A 237	54.352	32.228	32.667	1.00	41.43	C
ATOM	1678	CE3	TRP A 237	52.730	31.120	34.087	1.00	41.27	C
ATOM	1679	CD1	TRP A 237	54.260	31.006	30.797	1.00	41.31	C
ATOM	1680	NE1	TRP A 237	54.861	32.088	31.402	1.00	41.47	N
ATOM	1681	CZ2	TRP A 237	54.650	33.171	33.659	1.00	41.56	C
ATOM	1682	CZ3	TRP A 237	53.028	32.058	35.075	1.00	41.51	C
ATOM	1683	CH2	TRP A 237	53.980	33.070	34.852	1.00	41.65	C
ATOM	1684	C	TRP A 237	53.573	27.744	33.092	1.00	38.01	C
ATOM	1685	O	TRP A 237	54.687	28.035	33.537	1.00	37.78	O
ATOM	1686	N	LEU A 238	52.585	27.299	33.862	1.00	37.56	N
ATOM	1687	CA	LEU A 238	52.762	27.127	35.299	1.00	37.57	C
ATOM	1688	CB	LEU A 238	51.408	26.902	35.975	1.00	36.67	C
ATOM	1689	CG	LEU A 238	50.478	28.114	35.957	1.00	36.43	C
ATOM	1690	CD1	LEU A 238	49.116	27.731	36.487	1.00	36.24	C
ATOM	1691	CD2	LEU A 238	51.077	29.235	36.794	1.00	36.56	C
ATOM	1692	C	LEU A 238	53.703	25.977	35.622	1.00	37.81	C
ATOM	1693	O	LEU A 238	54.461	26.040	36.591	1.00	37.91	O
ATOM	1694	N	LEU A 239	53.660	24.923	34.819	1.00	38.48	N
ATOM	1695	CA	LEU A 239	54.540	23.791	35.057	1.00	39.58	C
ATOM	1696	CB	LEU A 239	54.163	22.619	34.149	1.00	39.09	C

Figure 8EE

ATOM	1697	CG	LEU A 239	52.839	21.921	34.493	1.00	38.87	C
ATOM	1698	CD1	LEU A 239	52.520	20.870	33.447	1.00	38.45	C
ATOM	1699	CD2	LEU A 239	52.936	21.293	35.881	1.00	38.47	C
ATOM	1700	C	LEU A 239	55.979	24.224	34.791	1.00	40.79	C
ATOM	1701	O	LEU A 239	56.927	23.586	35.249	1.00	40.92	O
ATOM	1702	N	GLU A 240	56.129	25.324	34.060	1.00	41.65	N
ATOM	1703	CA	GLU A 240	57.448	25.837	33.719	1.00	42.84	C
ATOM	1704	CB	GLU A 240	57.444	26.409	32.297	1.00	43.65	C
ATOM	1705	CG	GLU A 240	57.275	25.369	31.200	1.00	45.38	C
ATOM	1706	CD	GLU A 240	58.319	24.268	31.280	1.00	46.58	C
ATOM	1707	OE1	GLU A 240	59.529	24.596	31.325	1.00	47.04	O
ATOM	1708	OE2	GLU A 240	57.929	23.076	31.296	1.00	47.22	O
ATOM	1709	C	GLU A 240	57.961	26.905	34.667	1.00	43.09	C
ATOM	1710	O	GLU A 240	59.150	26.944	34.968	1.00	43.08	O
ATOM	1711	N	HIS A 241	57.069	27.767	35.143	1.00	43.49	N
ATOM	1712	CA	HIS A 241	57.486	28.858	36.011	1.00	44.38	C
ATOM	1713	CB	HIS A 241	57.070	30.186	35.364	1.00	45.65	C
ATOM	1714	CG	HIS A 241	57.586	30.367	33.967	1.00	47.27	C
ATOM	1715	CD2	HIS A 241	58.415	29.604	33.215	1.00	47.86	C
ATOM	1716	ND1	HIS A 241	57.237	31.442	33.178	1.00	47.83	N
ATOM	1717	CE1	HIS A 241	57.825	31.332	32.000	1.00	48.31	C
ATOM	1718	NE2	HIS A 241	58.546	30.225	31.996	1.00	48.70	N
ATOM	1719	C	HIS A 241	57.024	28.846	37.473	1.00	44.07	C
ATOM	1720	O	HIS A 241	57.400	29.741	38.232	1.00	44.13	O
ATOM	1721	N	GLU A 242	56.236	27.853	37.886	1.00	43.53	N
ATOM	1722	CA	GLU A 242	55.754	27.839	39.269	1.00	42.98	C
ATOM	1723	CB	GLU A 242	54.421	28.589	39.359	1.00	43.70	C
ATOM	1724	CG	GLU A 242	54.522	30.087	39.173	1.00	44.78	C
ATOM	1725	CD	GLU A 242	53.167	30.759	39.210	1.00	45.69	C
ATOM	1726	OE1	GLU A 242	52.341	30.397	40.081	1.00	45.73	O
ATOM	1727	OE2	GLU A 242	52.930	31.658	38.375	1.00	46.45	O
ATOM	1728	C	GLU A 242	55.578	26.498	39.977	1.00	42.31	C
ATOM	1729	O	GLU A 242	55.680	26.430	41.200	1.00	42.11	O
ATOM	1730	N	ALA A 243	55.306	25.439	39.224	1.00	41.35	N
ATOM	1731	CA	ALA A 243	55.072	24.127	39.820	1.00	40.63	C
ATOM	1732	CB	ALA A 243	54.557	23.163	38.758	1.00	40.62	C
ATOM	1733	C	ALA A 243	56.262	23.498	40.540	1.00	40.38	C
ATOM	1734	O	ALA A 243	57.382	23.480	40.025	1.00	39.78	O
ATOM	1735	N	PRO A 244	56.028	22.970	41.753	1.00	39.91	N
ATOM	1736	CD	PRO A 244	54.781	23.031	42.540	1.00	39.77	C
ATOM	1737	CA	PRO A 244	57.102	22.331	42.518	1.00	39.80	C
ATOM	1738	CB	PRO A 244	56.495	22.194	43.914	1.00	39.91	C
ATOM	1739	CG	PRO A 244	55.026	21.998	43.617	1.00	39.75	C
ATOM	1740	C	PRO A 244	57.415	20.982	41.875	1.00	39.90	C
ATOM	1741	O	PRO A 244	56.603	20.452	41.114	1.00	39.34	O
ATOM	1742	N	ASP A 245	58.588	20.431	42.176	1.00	40.00	N
ATOM	1743	CA	ASP A 245	59.011	19.149	41.615	1.00	40.24	C
ATOM	1744	CB	ASP A 245	60.516	18.947	41.853	1.00	41.09	C
ATOM	1745	CG	ASP A 245	61.071	17.750	41.102	1.00	41.84	C
ATOM	1746	OD1	ASP A 245	62.133	17.226	41.501	1.00	42.48	O
ATOM	1747	OD2	ASP A 245	60.455	17.334	40.100	1.00	42.69	O
ATOM	1748	C	ASP A 245	58.245	17.957	42.193	1.00	40.06	C
ATOM	1749	O	ASP A 245	58.817	17.131	42.907	1.00	40.25	O
ATOM	1750	N	ALA A 246	56.954	17.864	41.882	1.00	39.77	N
ATOM	1751	CA	ALA A 246	56.121	16.765	42.364	1.00	39.54	C
ATOM	1752	CB	ALA A 246	54.836	17.313	42.982	1.00	39.39	C
ATOM	1753	C	ALA A 246	55.796	15.857	41.182	1.00	39.56	C
ATOM	1754	O	ALA A 246	54.964	16.194	40.338	1.00	39.19	O

Figure 8FF

ATOM	1755	N	LYS A 247	56.446	14.699	41.129	1.00	39.47	N
ATOM	1756	CA	LYS A 247	56.245	13.771	40.024	1.00	39.58	C
ATOM	1757	CB	LYS A 247	57.416	13.892	39.049	1.00	40.22	C
ATOM	1758	CG	LYS A 247	58.777	13.707	39.705	1.00	41.70	C
ATOM	1759	CD	LYS A 247	59.910	13.916	38.706	1.00	43.00	C
ATOM	1760	CE	LYS A 247	61.266	13.866	39.394	1.00	43.78	C
ATOM	1761	NZ	LYS A 247	61.482	12.561	40.080	1.00	45.10	N
ATOM	1762	C	LYS A 247	56.097	12.317	40.450	1.00	39.34	C
ATOM	1763	O	LYS A 247	56.453	11.941	41.564	1.00	39.51	O
ATOM	1764	N	SER A 248	55.583	11.499	39.539	1.00	38.98	N
ATOM	1765	CA	SER A 248	55.385	10.082	39.793	1.00	38.69	C
ATOM	1766	CB	SER A 248	54.009	9.856	40.435	1.00	38.62	C
ATOM	1767	OG	SER A 248	53.728	8.479	40.587	1.00	38.23	O
ATOM	1768	C	SER A 248	55.487	9.286	38.492	1.00	38.63	C
ATOM	1769	O	SER A 248	55.262	9.820	37.405	1.00	38.34	O
ATOM	1770	N	ALA A 249	55.830	8.007	38.609	1.00	38.50	N
ATOM	1771	CA	ALA A 249	55.941	7.150	37.438	1.00	38.58	C
ATOM	1772	CB	ALA A 249	57.195	6.275	37.536	1.00	38.58	C
ATOM	1773	C	ALA A 249	54.691	6.281	37.308	1.00	38.38	C
ATOM	1774	O	ALA A 249	54.529	5.558	36.326	1.00	38.36	O
ATOM	1775	N	ASP A 250	53.805	6.357	38.299	1.00	38.17	N
ATOM	1776	CA	ASP A 250	52.572	5.576	38.269	1.00	37.75	C
ATOM	1777	CB	ASP A 250	51.765	5.767	39.562	1.00	38.49	C
ATOM	1778	CG	ASP A 250	52.435	5.136	40.773	1.00	39.62	C
ATOM	1779	OD1	ASP A 250	53.432	4.403	40.593	1.00	40.12	O
ATOM	1780	OD2	ASP A 250	51.960	5.365	41.909	1.00	39.88	O
ATOM	1781	C	ASP A 250	51.722	5.995	37.076	1.00	36.87	C
ATOM	1782	O	ASP A 250	51.859	7.106	36.563	1.00	37.25	O
ATOM	1783	N	ALA A 251	50.845	5.100	36.636	1.00	36.01	N
ATOM	1784	CA	ALA A 251	49.971	5.379	35.504	1.00	34.97	C
ATOM	1785	CB	ALA A 251	49.359	4.086	34.990	1.00	35.52	C
ATOM	1786	C	ALA A 251	48.868	6.349	35.918	1.00	33.97	C
ATOM	1787	O	ALA A 251	48.624	6.547	37.107	1.00	33.63	O
ATOM	1788	N	ASN A 252	48.206	6.948	34.933	1.00	32.74	N
ATOM	1789	CA	ASN A 252	47.131	7.894	35.204	1.00	31.53	C
ATOM	1790	CB	ASN A 252	46.550	8.451	33.903	1.00	31.29	C
ATOM	1791	CG	ASN A 252	47.583	9.156	33.059	1.00	31.11	C
ATOM	1792	OD1	ASN A 252	48.532	9.745	33.580	1.00	30.92	O
ATOM	1793	ND2	ASN A 252	47.397	9.118	31.747	1.00	31.17	N
ATOM	1794	C	ASN A 252	46.025	7.202	35.983	1.00	30.57	C
ATOM	1795	O	ASN A 252	45.737	6.032	35.755	1.00	30.37	O
ATOM	1796	N	ILE A 253	45.398	7.929	36.896	1.00	29.76	N
ATOM	1797	CA	ILE A 253	44.331	7.340	37.694	1.00	29.03	C
ATOM	1798	CB	ILE A 253	44.880	6.919	39.080	1.00	29.45	C
ATOM	1799	CG2	ILE A 253	45.374	8.139	39.833	1.00	29.70	C
ATOM	1800	CG1	ILE A 253	43.802	6.198	39.888	1.00	30.29	C
ATOM	1801	CD1	ILE A 253	44.292	5.736	41.244	1.00	31.33	C
ATOM	1802	C	ILE A 253	43.141	8.286	37.875	1.00	28.11	C
ATOM	1803	O	ILE A 253	43.297	9.512	37.893	1.00	27.59	O
ATOM	1804	N	ALA A 254	41.948	7.705	37.979	1.00	26.97	N
ATOM	1805	CA	ALA A 254	40.733	8.479	38.183	1.00	25.96	C
ATOM	1806	CB	ALA A 254	39.685	8.123	37.125	1.00	25.54	C
ATOM	1807	C	ALA A 254	40.200	8.167	39.578	1.00	25.64	C
ATOM	1808	O	ALA A 254	40.217	7.010	40.013	1.00	25.40	O
ATOM	1809	N	PHE A 255	39.749	9.203	40.276	1.00	24.93	N
ATOM	1810	CA	PHE A 255	39.188	9.061	41.619	1.00	25.25	C
ATOM	1811	CB	PHE A 255	39.931	9.936	42.633	1.00	24.82	C
ATOM	1812	CG	PHE A 255	41.278	9.416	43.044	1.00	25.59	C

Figure 8GG

ATOM	1813	CD1 PHE A 255	42.399	10.235	42.953	1.00	25.46	C
ATOM	1814	CD2 PHE A 255	41.422	8.132	43.559	1.00	26.01	C
ATOM	1815	CE1 PHE A 255	43.650	9.789	43.368	1.00	26.29	C
ATOM	1816	CE2 PHE A 255	42.671	7.668	43.982	1.00	26.91	C
ATOM	1817	CZ PHE A 255	43.790	8.500	43.884	1.00	26.72	C
ATOM	1818	C PHE A 255	37.726	9.503	41.663	1.00	25.33	C
ATOM	1819	O PHE A 255	37.370	10.562	41.140	1.00	25.42	O
ATOM	1820	N CYS A 256	36.874	8.698	42.284	1.00	25.82	N
ATOM	1821	CA CYS A 256	35.482	9.099	42.462	1.00	26.46	C
ATOM	1822	CB CYS A 256	34.512	8.041	41.920	1.00	27.23	C
ATOM	1823	SG CYS A 256	34.653	6.407	42.664	1.00	29.02	S
ATOM	1824	C CYS A 256	35.364	9.237	43.983	1.00	26.79	C
ATOM	1825	O CYS A 256	36.246	8.775	44.715	1.00	26.33	O
ATOM	1826	N MET A 257	34.308	9.877	44.475	1.00	27.23	N
ATOM	1827	CA MET A 257	34.174	10.030	45.924	1.00	27.99	C
ATOM	1828	CB MET A 257	33.566	11.395	46.270	1.00	28.01	C
ATOM	1829	CG MET A 257	34.365	12.586	45.730	1.00	28.41	C
ATOM	1830	SD MET A 257	36.165	12.503	46.030	1.00	29.78	S
ATOM	1831	CE MET A 257	36.802	12.840	44.372	1.00	29.70	C
ATOM	1832	C MET A 257	33.343	8.903	46.536	1.00	28.39	C
ATOM	1833	O MET A 257	33.310	8.733	47.754	1.00	28.39	O
ATOM	1834	N ALA A 258	32.691	8.128	45.679	1.00	29.08	N
ATOM	1835	CA ALA A 258	31.880	6.999	46.117	1.00	30.02	C
ATOM	1836	CB ALA A 258	30.474	7.460	46.494	1.00	29.75	C
ATOM	1837	C ALA A 258	31.814	6.007	44.969	1.00	30.76	C
ATOM	1838	O ALA A 258	31.509	6.379	43.837	1.00	30.44	O
ATOM	1839	N MET A 259	32.111	4.747	45.259	1.00	31.73	N
ATOM	1840	CA MET A 259	32.084	3.712	44.236	1.00	32.90	C
ATOM	1841	CB MET A 259	32.945	2.527	44.675	1.00	34.30	C
ATOM	1842	CG MET A 259	33.303	1.566	43.559	1.00	36.54	C
ATOM	1843	SD MET A 259	34.242	2.358	42.237	1.00	38.48	S
ATOM	1844	CE MET A 259	35.844	2.502	42.974	1.00	37.84	C
ATOM	1845	C MET A 259	30.638	3.283	44.029	1.00	33.14	C
ATOM	1846	O MET A 259	30.189	2.272	44.569	1.00	33.45	O
ATOM	1847	N THR A 260	29.912	4.076	43.250	1.00	32.81	N
ATOM	1848	CA THR A 260	28.509	3.827	42.955	1.00	32.55	C
ATOM	1849	CB THR A 260	27.706	5.132	42.987	1.00	32.69	C
ATOM	1850	OG1 THR A 260	28.140	5.973	41.907	1.00	32.32	O
ATOM	1851	CG2 THR A 260	27.911	5.857	44.304	1.00	32.38	C
ATOM	1852	C THR A 260	28.362	3.260	41.551	1.00	32.45	C
ATOM	1853	O THR A 260	29.311	3.264	40.765	1.00	32.43	O
ATOM	1854	N PRO A 261	27.165	2.765	41.212	1.00	32.43	N
ATOM	1855	CD PRO A 261	26.012	2.408	42.064	1.00	32.73	C
ATOM	1856	CA PRO A 261	27.002	2.227	39.862	1.00	32.04	C
ATOM	1857	CB PRO A 261	25.559	1.726	39.864	1.00	32.40	C
ATOM	1858	CG PRO A 261	25.383	1.268	41.293	1.00	32.56	C
ATOM	1859	C PRO A 261	27.244	3.333	38.835	1.00	31.88	C
ATOM	1860	O PRO A 261	27.850	3.096	37.796	1.00	31.83	O
ATOM	1861	N GLY A 262	26.779	4.545	39.139	1.00	31.39	N
ATOM	1862	CA GLY A 262	26.971	5.660	38.225	1.00	30.93	C
ATOM	1863	C GLY A 262	28.439	5.941	37.935	1.00	30.03	C
ATOM	1864	O GLY A 262	28.831	6.103	36.782	1.00	30.46	O
ATOM	1865	N ALA A 263	29.254	6.003	38.980	1.00	29.43	N
ATOM	1866	CA ALA A 263	30.678	6.248	38.816	1.00	28.87	C
ATOM	1867	CB ALA A 263	31.342	6.409	40.178	1.00	28.90	C
ATOM	1868	C ALA A 263	31.329	5.099	38.052	1.00	28.88	C
ATOM	1869	O ALA A 263	32.162	5.314	37.170	1.00	28.36	O
ATOM	1870	N GLU A 264	30.944	3.874	38.396	1.00	28.76	N

Figure 8HH

ATOM	1871	CA	GLU A 264	31.505	2.691	37.752	1.00	29.21	C
ATOM	1872	CB	GLU A 264	30.980	1.432	38.457	1.00	29.05	C
ATOM	1873	CG	GLU A 264	31.358	1.396	39.931	1.00	29.36	C
ATOM	1874	CD	GLU A 264	30.506	0.450	40.767	1.00	29.84	C
ATOM	1875	OE1	GLU A 264	29.389	0.097	40.345	1.00	29.77	O
ATOM	1876	OE2	GLU A 264	30.955	0.080	41.870	1.00	30.70	O
ATOM	1877	C	GLU A 264	31.187	2.662	36.258	1.00	29.35	C
ATOM	1878	O	GLU A 264	32.006	2.220	35.451	1.00	29.37	O
ATOM	1879	N	GLN A 265	30.010	3.157	35.892	1.00	29.70	N
ATOM	1880	CA	GLN A 265	29.601	3.179	34.495	1.00	30.44	C
ATOM	1881	CB	GLN A 265	28.137	3.606	34.381	1.00	31.82	C
ATOM	1882	CG	GLN A 265	27.210	2.667	35.117	1.00	35.27	C
ATOM	1883	CD	GLN A 265	25.751	3.021	34.954	1.00	37.03	C
ATOM	1884	OE1	GLN A 265	24.889	2.428	35.607	1.00	39.00	O
ATOM	1885	NE2	GLN A 265	25.459	3.984	34.078	1.00	38.41	N
ATOM	1886	C	GLN A 265	30.474	4.076	33.621	1.00	29.94	C
ATOM	1887	O	GLN A 265	30.392	4.015	32.396	1.00	29.87	O
ATOM	1888	N	LEU A 266	31.299	4.906	34.247	1.00	29.15	N
ATOM	1889	CA	LEU A 266	32.198	5.791	33.506	1.00	29.01	C
ATOM	1890	CB	LEU A 266	32.496	7.055	34.318	1.00	28.73	C
ATOM	1891	CG	LEU A 266	31.367	8.075	34.425	1.00	29.05	C
ATOM	1892	CD1	LEU A 266	31.842	9.274	35.237	1.00	28.78	C
ATOM	1893	CD2	LEU A 266	30.937	8.502	33.024	1.00	28.78	C
ATOM	1894	C	LEU A 266	33.523	5.113	33.169	1.00	28.86	C
ATOM	1895	O	LEU A 266	34.319	5.643	32.386	1.00	28.44	O
ATOM	1896	N	LEU A 267	33.757	3.939	33.751	1.00	28.56	N
ATOM	1897	CA	LEU A 267	35.010	3.232	33.533	1.00	28.80	C
ATOM	1898	CB	LEU A 267	34.943	1.824	34.133	1.00	29.49	C
ATOM	1899	CG	LEU A 267	36.275	1.073	34.136	1.00	29.76	C
ATOM	1900	CD1	LEU A 267	37.305	1.829	34.979	1.00	29.91	C
ATOM	1901	CD2	LEU A 267	36.058	-0.329	34.700	1.00	30.42	C
ATOM	1902	C	LEU A 267	35.483	3.150	32.080	1.00	28.65	C
ATOM	1903	O	LEU A 267	36.609	3.529	31.782	1.00	28.27	O
ATOM	1904	N	PRO A 268	34.635	2.655	31.161	1.00	28.76	N
ATOM	1905	CD	PRO A 268	33.250	2.185	31.327	1.00	29.21	C
ATOM	1906	CA	PRO A 268	35.058	2.559	29.759	1.00	29.10	C
ATOM	1907	CB	PRO A 268	33.849	1.920	29.074	1.00	29.23	C
ATOM	1908	CG	PRO A 268	32.695	2.343	29.937	1.00	29.74	C
ATOM	1909	C	PRO A 268	35.470	3.902	29.135	1.00	29.03	C
ATOM	1910	O	PRO A 268	36.458	3.971	28.408	1.00	28.44	O
ATOM	1911	N	VAL A 269	34.719	4.961	29.422	1.00	29.23	N
ATOM	1912	CA	VAL A 269	35.045	6.283	28.885	1.00	29.50	C
ATOM	1913	CB	VAL A 269	33.888	7.279	29.118	1.00	30.12	C
ATOM	1914	CG1	VAL A 269	34.278	8.681	28.649	1.00	31.29	C
ATOM	1915	CG2	VAL A 269	32.667	6.812	28.338	1.00	31.48	C
ATOM	1916	C	VAL A 269	36.328	6.791	29.536	1.00	29.16	C
ATOM	1917	O	VAL A 269	37.220	7.299	28.852	1.00	29.31	O
ATOM	1918	N	LEU A 270	36.438	6.635	30.853	1.00	28.36	N
ATOM	1919	CA	LEU A 270	37.640	7.062	31.547	1.00	28.07	C
ATOM	1920	CB	LEU A 270	37.531	6.749	33.048	1.00	27.79	C
ATOM	1921	CG	LEU A 270	36.555	7.621	33.858	1.00	27.73	C
ATOM	1922	CD1	LEU A 270	36.423	7.075	35.273	1.00	26.65	C
ATOM	1923	CD2	LEU A 270	37.060	9.062	33.893	1.00	27.37	C
ATOM	1924	C	LEU A 270	38.859	6.358	30.942	1.00	28.42	C
ATOM	1925	O	LEU A 270	39.918	6.968	30.759	1.00	28.07	O
ATOM	1926	N	GLN A 271	38.706	5.075	30.620	1.00	28.62	N
ATOM	1927	CA	GLN A 271	39.803	4.309	30.036	1.00	29.58	C
ATOM	1928	CB	GLN A 271	39.446	2.815	30.009	1.00	29.77	C

Figure 8II

ATOM	1929	CG	GLN A 271	39.562	2.171	31.395	1.00	29.56	C
ATOM	1930	CD	GLN A 271	39.100	0.719	31.441	1.00	30.15	C
ATOM	1931	OE1	GLN A 271	39.476	-0.030	32.346	1.00	30.14	O
ATOM	1932	NE2	GLN A 271	38.276	0.322	30.480	1.00	29.92	N
ATOM	1933	C	GLN A 271	40.154	4.831	28.641	1.00	30.09	C
ATOM	1934	O	GLN A 271	41.333	4.935	28.298	1.00	30.05	O
ATOM	1935	N	ARG A 272	39.139	5.173	27.850	1.00	30.62	N
ATOM	1936	CA	ARG A 272	39.372	5.733	26.519	1.00	32.09	C
ATOM	1937	CB	ARG A 272	38.051	5.959	25.769	1.00	33.56	C
ATOM	1938	CG	ARG A 272	37.497	4.712	25.080	1.00	36.87	C
ATOM	1939	CD	ARG A 272	36.510	5.071	23.966	1.00	39.07	C
ATOM	1940	NE	ARG A 272	35.236	5.575	24.474	1.00	41.31	N
ATOM	1941	CZ	ARG A 272	34.331	4.826	25.101	1.00	42.35	C
ATOM	1942	NH1	ARG A 272	34.557	3.529	25.295	1.00	42.99	N
ATOM	1943	NH2	ARG A 272	33.201	5.372	25.538	1.00	42.53	N
ATOM	1944	C	ARG A 272	40.119	7.066	26.646	1.00	31.71	C
ATOM	1945	O	ARG A 272	40.888	7.441	25.758	1.00	31.85	O
ATOM	1946	N	TYR A 273	39.892	7.775	27.751	1.00	31.12	N
ATOM	1947	CA	TYR A 273	40.560	9.053	27.996	1.00	30.49	C
ATOM	1948	CB	TYR A 273	39.764	9.912	28.988	1.00	30.13	C
ATOM	1949	CG	TYR A 273	38.764	10.843	28.338	1.00	30.08	C
ATOM	1950	CD1	TYR A 273	37.423	10.485	28.209	1.00	30.27	C
ATOM	1951	CE1	TYR A 273	36.506	11.337	27.600	1.00	30.56	C
ATOM	1952	CD2	TYR A 273	39.165	12.084	27.840	1.00	30.11	C
ATOM	1953	CE2	TYR A 273	38.257	12.944	27.231	1.00	30.62	C
ATOM	1954	CZ	TYR A 273	36.932	12.566	27.113	1.00	31.12	C
ATOM	1955	OH	TYR A 273	36.035	13.413	26.506	1.00	31.48	O
ATOM	1956	C	TYR A 273	41.992	8.902	28.510	1.00	30.66	C
ATOM	1957	O	TYR A 273	42.738	9.878	28.577	1.00	30.68	O
ATOM	1958	N	GLY A 274	42.383	7.687	28.879	1.00	30.61	N
ATOM	1959	CA	GLY A 274	43.740	7.489	29.356	1.00	30.77	C
ATOM	1960	C	GLY A 274	43.881	7.150	30.830	1.00	31.11	C
ATOM	1961	O	GLY A 274	44.991	7.138	31.358	1.00	30.91	O
ATOM	1962	N	PHE A 275	42.766	6.888	31.503	1.00	31.47	N
ATOM	1963	CA	PHE A 275	42.810	6.527	32.918	1.00	32.19	C
ATOM	1964	CB	PHE A 275	41.801	7.348	33.728	1.00	31.21	C
ATOM	1965	CG	PHE A 275	42.032	8.831	33.653	1.00	30.69	C
ATOM	1966	CD1	PHE A 275	41.342	9.611	32.729	1.00	30.41	C
ATOM	1967	CD2	PHE A 275	42.970	9.441	34.477	1.00	29.75	C
ATOM	1968	CE1	PHE A 275	41.587	10.983	32.624	1.00	30.10	C
ATOM	1969	CE2	PHE A 275	43.223	10.809	34.382	1.00	30.33	C
ATOM	1970	CZ	PHE A 275	42.529	11.582	33.451	1.00	30.15	C
ATOM	1971	C	PHE A 275	42.471	5.048	33.007	1.00	33.19	C
ATOM	1972	O	PHE A 275	41.321	4.655	32.821	1.00	33.75	O
ATOM	1973	N	GLU A 276	43.484	4.234	33.277	1.00	34.59	N
ATOM	1974	CA	GLU A 276	43.310	2.789	33.361	1.00	36.07	C
ATOM	1975	CB	GLU A 276	44.675	2.103	33.438	1.00	37.83	C
ATOM	1976	CG	GLU A 276	45.583	2.659	34.528	1.00	39.84	C
ATOM	1977	CD	GLU A 276	46.443	1.587	35.173	1.00	41.24	C
ATOM	1978	OE1	GLU A 276	46.984	0.727	34.439	1.00	42.52	O
ATOM	1979	OE2	GLU A 276	46.588	1.607	36.415	1.00	41.91	O
ATOM	1980	C	GLU A 276	42.478	2.336	34.544	1.00	35.79	C
ATOM	1981	O	GLU A 276	41.703	1.381	34.442	1.00	35.99	O
ATOM	1982	N	THR A 277	42.632	3.035	35.662	1.00	35.29	N
ATOM	1983	CA	THR A 277	41.938	2.665	36.885	1.00	35.33	C
ATOM	1984	CB	THR A 277	42.976	2.238	37.953	1.00	35.95	C
ATOM	1985	OG1	THR A 277	43.827	1.222	37.404	1.00	37.35	O
ATOM	1986	CG2	THR A 277	42.292	1.707	39.198	1.00	36.44	C

Figure 8JJ

ATOM	1987	C	THR A 277	41.056	3.753	37.487	1.00	34.38	C
ATOM	1988	O	THR A 277	41.325	4.946	37.339	1.00	33.90	O
ATOM	1989	N	LEU A 278	39.999	3.309	38.162	1.00	33.42	N
ATOM	1990	CA	LEU A 278	39.063	4.180	38.860	1.00	32.84	C
ATOM	1991	CB	LEU A 278	37.660	4.078	38.261	1.00	32.25	C
ATOM	1992	CG	LEU A 278	36.557	4.754	39.080	1.00	31.65	C
ATOM	1993	CD1	LEU A 278	36.739	6.269	39.067	1.00	31.85	C
ATOM	1994	CD2	LEU A 278	35.204	4.385	38.506	1.00	32.00	C
ATOM	1995	C	LEU A 278	39.029	3.683	40.301	1.00	32.90	C
ATOM	1996	O	LEU A 278	38.696	2.523	40.551	1.00	32.50	O
ATOM	1997	N	GLU A 279	39.390	4.549	41.242	1.00	32.79	N
ATOM	1998	CA	GLU A 279	39.390	4.191	42.657	1.00	33.18	C
ATOM	1999	CB	GLU A 279	40.821	4.141	43.212	1.00	33.85	C
ATOM	2000	CG	GLU A 279	41.704	3.034	42.652	1.00	34.93	C
ATOM	2001	CD	GLU A 279	43.103	3.054	43.243	1.00	35.80	C
ATOM	2002	OE1	GLU A 279	43.990	2.345	42.711	1.00	37.17	O
ATOM	2003	OE2	GLU A 279	43.323	3.773	44.242	1.00	35.89	O
ATOM	2004	C	GLU A 279	38.596	5.205	43.472	1.00	33.21	C
ATOM	2005	O	GLU A 279	38.373	6.340	43.037	1.00	31.95	O
ATOM	2006	N	LYS A 280	38.173	4.786	44.660	1.00	33.51	N
ATOM	2007	CA	LYS A 280	37.438	5.666	45.550	1.00	34.17	C
ATOM	2008	CB	LYS A 280	36.529	4.868	46.489	1.00	34.76	C
ATOM	2009	CG	LYS A 280	35.955	5.721	47.620	1.00	35.25	C
ATOM	2010	CD	LYS A 280	34.963	4.950	48.463	1.00	36.16	C
ATOM	2011	CE	LYS A 280	34.444	5.796	49.618	1.00	36.76	C
ATOM	2012	NZ	LYS A 280	33.323	5.103	50.330	1.00	37.23	N
ATOM	2013	C	LYS A 280	38.437	6.456	46.382	1.00	34.45	C
ATOM	2014	O	LYS A 280	39.405	5.901	46.896	1.00	34.38	O
ATOM	2015	N	LEU A 281	38.204	7.756	46.503	1.00	34.75	N
ATOM	2016	CA	LEU A 281	39.079	8.605	47.293	1.00	35.65	C
ATOM	2017	CB	LEU A 281	39.370	9.908	46.550	1.00	35.08	C
ATOM	2018	CG	LEU A 281	40.280	10.898	47.278	1.00	34.82	C
ATOM	2019	CD1	LEU A 281	41.691	10.337	47.360	1.00	34.07	C
ATOM	2020	CD2	LEU A 281	40.273	12.230	46.537	1.00	34.40	C
ATOM	2021	C	LEU A 281	38.392	8.920	48.618	1.00	36.70	C
ATOM	2022	O	LEU A 281	37.230	9.325	48.635	1.00	36.57	O
ATOM	2023	N	ALA A 282	39.105	8.726	49.722	1.00	37.88	N
ATOM	2024	CA	ALA A 282	38.551	9.008	51.045	1.00	39.41	C
ATOM	2025	CB	ALA A 282	39.297	8.204	52.111	1.00	39.19	C
ATOM	2026	C	ALA A 282	38.687	10.501	51.327	1.00	40.14	C
ATOM	2027	O	ALA A 282	39.798	11.023	51.394	1.00	40.34	O
ATOM	2028	N	VAL A 283	37.556	11.179	51.500	1.00	41.23	N
ATOM	2029	CA	VAL A 283	37.550	12.617	51.757	1.00	42.40	C
ATOM	2030	CB	VAL A 283	36.640	13.340	50.746	1.00	42.15	C
ATOM	2031	CG1	VAL A 283	36.654	14.834	51.008	1.00	42.12	C
ATOM	2032	CG2	VAL A 283	37.097	13.037	49.330	1.00	42.22	C
ATOM	2033	C	VAL A 283	37.073	12.974	53.168	1.00	43.56	C
ATOM	2034	O	VAL A 283	36.188	12.315	53.718	1.00	43.82	O
ATOM	2035	N	LEU A 284	37.658	14.025	53.743	1.00	44.69	N
ATOM	2036	CA	LEU A 284	37.290	14.488	55.084	1.00	45.88	C
ATOM	2037	CB	LEU A 284	38.534	14.635	55.968	1.00	46.17	C
ATOM	2038	CG	LEU A 284	39.537	13.487	56.073	1.00	46.66	C
ATOM	2039	CD1	LEU A 284	40.567	13.830	57.143	1.00	46.97	C
ATOM	2040	CD2	LEU A 284	38.822	12.191	56.420	1.00	46.95	C
ATOM	2041	C	LEU A 284	36.591	15.844	55.006	1.00	46.59	C
ATOM	2042	O	LEU A 284	36.980	16.790	55.699	1.00	47.10	O
ATOM	2043	N	GLY A 285	35.567	15.945	54.165	1.00	47.04	N
ATOM	2044	CA	GLY A 285	34.858	17.204	54.025	1.00	47.76	C

Figure 8KK

ATOM	2045	C	GLY A 285	33.866	17.240	52.875	1.00	47.90	C
ATOM	2046	O	GLY A 285	32.783	17.840	53.035	1.00	48.58	O
ATOM	2047	OXT	GLY A 285	34.176	16.690	51.803	1.00	48.12	O
ATOM	2048	N1	GLL H 1	31.450	21.033	34.964	1.00	27.57	N
ATOM	2049	C2	GLL H 1	30.367	21.927	35.384	1.00	28.20	C
ATOM	2050	C3	GLL H 1	29.770	21.431	36.710	1.00	28.42	C
ATOM	2051	C4	GLL H 1	28.226	21.455	36.650	1.00	28.59	C
ATOM	2052	C5	GLL H 1	27.623	21.260	38.035	1.00	29.41	C
ATOM	2053	O6	GLL H 1	26.564	21.811	38.323	1.00	29.10	O
ATOM	2054	O7	GLL H 1	28.182	20.544	38.872	1.00	28.72	O
ATOM	2055	C8	GLL H 1	30.930	23.326	35.546	1.00	28.44	C
ATOM	2056	O9	GLL H 1	31.829	23.753	34.734	1.00	28.04	O
ATOM	2057	O10	GLL H 1	30.504	24.085	36.478	1.00	29.50	O
ATOM	2107	OH2	WAT S 1	28.597	26.858	34.170	1.00	35.33	O
ATOM	2108	OH2	WAT S 2	39.874	15.622	52.951	1.00	27.02	O
ATOM	2109	OH2	WAT S 3	47.806	29.582	41.793	1.00	26.82	O
ATOM	2110	OH2	WAT S 4	32.712	12.071	49.955	1.00	33.48	O
ATOM	2111	OH2	WAT S 5	34.388	29.141	28.290	1.00	23.66	O
ATOM	2112	OH2	WAT S 6	29.860	12.057	36.929	1.00	28.75	O
ATOM	2113	OH2	WAT S 7	18.596	31.078	31.314	1.00	34.56	O
ATOM	2114	OH2	WAT S 8	43.746	30.135	36.454	1.00	31.70	O
ATOM	2115	OH2	WAT S 9	40.710	28.228	24.786	1.00	32.34	O
ATOM	2116	OH2	WAT S 10	40.249	20.233	54.144	1.00	31.31	O
ATOM	2117	OH2	WAT S 11	50.729	22.205	49.175	1.00	29.78	O
ATOM	2118	OH2	WAT S 12	36.244	25.185	28.517	1.00	31.80	O
ATOM	2119	OH2	WAT S 13	29.586	1.690	31.020	1.00	35.67	O
ATOM	2120	OH2	WAT S 14	27.347	8.426	41.609	1.00	33.85	O
ATOM	2121	OH2	WAT S 15	37.753	30.653	48.262	1.00	31.49	O
ATOM	2122	OH2	WAT S 16	39.852	0.508	38.143	1.00	34.51	O
ATOM	2123	OH2	WAT S 17	49.787	10.549	30.555	1.00	37.19	O
ATOM	2124	OH2	WAT S 18	48.590	27.775	45.618	1.00	37.05	O
ATOM	2125	OH2	WAT S 19	46.426	30.341	36.837	1.00	31.78	O
ATOM	2126	OH2	WAT S 20	26.420	26.789	43.445	1.00	49.61	O
ATOM	2127	OH2	WAT S 21	46.268	30.739	29.048	1.00	36.68	O
ATOM	2128	OH2	WAT S 22	51.867	28.804	43.136	1.00	49.35	O
ATOM	2129	OH2	WAT S 23	36.825	15.509	25.141	1.00	33.48	O
ATOM	2130	OH2	WAT S 24	33.895	12.303	25.137	1.00	32.90	O
ATOM	2131	OH2	WAT S 25	36.781	35.492	29.625	1.00	32.04	O
ATOM	2132	OH2	WAT S 26	33.992	25.683	29.926	1.00	34.00	O
ATOM	2133	OH2	WAT S 27	24.645	23.077	49.434	1.00	37.03	O
ATOM	2134	OH2	WAT S 28	37.658	21.847	53.629	1.00	28.23	O
ATOM	2135	OH2	WAT S 29	43.589	10.679	50.593	1.00	35.31	O
ATOM	2136	OH2	WAT S 30	23.719	24.494	52.323	1.00	35.79	O
ATOM	2137	OH2	WAT S 31	39.337	10.396	24.048	1.00	52.48	O
ATOM	2138	OH2	WAT S 32	30.718	16.193	20.614	1.00	43.40	O
ATOM	2139	OH2	WAT S 33	54.666	8.115	42.921	1.00	47.38	O
ATOM	2140	OH2	WAT S 34	31.589	30.437	35.873	1.00	47.91	O
ATOM	2141	OH2	WAT S 35	50.340	32.089	31.165	1.00	41.42	O
ATOM	2142	OH2	WAT S 36	52.796	22.874	51.515	1.00	43.37	O
ATOM	2143	OH2	WAT S 37	55.373	22.792	30.536	1.00	57.15	O
ATOM	2144	OH2	WAT S 38	39.463	35.817	35.231	1.00	32.47	O
ATOM	2145	OH2	WAT S 39	16.092	27.159	27.724	1.00	37.21	O
ATOM	2146	OH2	WAT S 40	25.640	24.780	14.005	1.00	45.10	O
ATOM	2147	OH2	WAT S 41	50.761	2.536	38.098	1.00	52.36	O
ATOM	2148	OH2	WAT S 42	18.634	34.668	30.052	1.00	43.13	O
ATOM	2149	OH2	WAT S 43	38.535	-2.076	28.925	1.00	32.09	O
ATOM	2150	OH2	WAT S 44	13.196	24.012	19.544	1.00	39.80	O
ATOM	2151	OH2	WAT S 45	31.357	26.426	13.729	1.00	42.37	O

Figure 8LL

ATOM	2152	OH2	WAT	S	46	52.281	28.184	27.760	1.00	36.04	O
ATOM	2153	OH2	WAT	S	47	46.418	33.201	38.411	1.00	44.49	O
ATOM	2154	OH2	WAT	S	48	53.339	19.767	45.907	1.00	33.06	O
ATOM	2155	OH2	WAT	S	49	46.967	16.612	52.076	1.00	30.83	O
ATOM	2156	OH2	WAT	S	50	36.971	22.531	27.836	1.00	27.70	O
ATOM	2157	OH2	WAT	S	51	34.404	33.315	13.713	1.00	63.94	O
ATOM	2158	OH2	WAT	S	52	25.500	12.910	42.366	1.00	44.85	O
ATOM	2159	OH2	WAT	S	53	41.068	33.656	19.666	1.00	61.38	O
ATOM	2160	OH2	WAT	S	54	47.085	26.379	21.851	1.00	40.28	O
ATOM	2161	OH2	WAT	S	55	20.530	37.341	28.713	1.00	42.17	O
ATOM	2162	OH2	WAT	S	56	45.303	21.686	23.767	1.00	31.71	O
ATOM	2163	OH2	WAT	S	57	32.171	3.766	47.945	1.00	39.12	O
ATOM	2164	OH2	WAT	S	58	29.040	34.613	43.652	1.00	54.88	O
ATOM	2165	OH2	WAT	S	59	63.169	17.639	43.696	1.00	51.86	O
ATOM	2166	OH2	WAT	S	60	17.466	39.005	16.986	1.00	43.71	O
ATOM	2167	OH2	WAT	S	61	31.214	5.360	30.303	1.00	35.40	O
ATOM	2168	OH2	WAT	S	62	32.083	34.301	14.884	1.00	43.78	O
ATOM	2169	OH2	WAT	S	63	56.027	25.650	46.067	1.00	55.28	O
ATOM	2170	OH2	WAT	S	64	49.021	30.852	29.187	1.00	36.47	O
ATOM	2171	OH2	WAT	S	65	23.639	30.939	17.071	1.00	45.30	O
ATOM	2172	OH2	WAT	S	66	37.468	39.280	36.056	1.00	51.85	O
ATOM	2173	OH2	WAT	S	67	36.224	28.879	18.295	1.00	42.91	O
ATOM	2174	OH2	WAT	S	68	24.175	22.019	37.073	1.00	26.31	O
ATOM	2175	OH2	WAT	S	69	22.152	26.896	48.344	1.00	61.11	O
ATOM	2176	OH2	WAT	S	70	48.970	6.753	46.837	1.00	48.46	O
ATOM	2177	OH2	WAT	S	71	42.273	27.745	52.837	1.00	33.63	O
ATOM	2178	OH2	WAT	S	72	53.543	28.612	47.788	1.00	36.22	O
ATOM	2179	OH2	WAT	S	73	8.907	23.447	21.629	1.00	50.44	O
ATOM	2180	OH2	WAT	S	74	34.479	41.295	17.726	1.00	40.28	O
ATOM	2181	OH2	WAT	S	75	34.584	20.083	21.656	1.00	47.04	O
ATOM	2182	OH2	WAT	S	76	48.365	7.218	39.795	1.00	37.47	O
ATOM	2183	OH2	WAT	S	77	17.856	23.193	14.949	1.00	36.50	O
ATOM	2184	OH2	WAT	S	78	22.607	24.686	38.024	1.00	40.25	O
ATOM	2185	OH2	WAT	S	79	21.034	18.474	37.563	1.00	57.62	O
ATOM	2186	OH2	WAT	S	80	52.538	9.289	46.345	1.00	43.42	O
ATOM	2187	OH2	WAT	S	81	29.673	13.056	39.115	1.00	28.10	O
ATOM	2188	OH2	WAT	S	82	25.423	30.052	47.729	1.00	43.44	O
ATOM	2189	OH2	WAT	S	83	27.721	18.627	14.255	1.00	44.64	O
ATOM	2190	OH2	WAT	S	84	59.509	32.103	35.721	1.00	63.08	O
ATOM	2191	OH2	WAT	S	85	44.482	33.024	48.358	1.00	36.03	O
ATOM	2192	OH2	WAT	S	86	41.973	7.788	49.345	1.00	50.35	O
ATOM	2193	OH2	WAT	S	87	37.663	22.110	25.265	1.00	41.24	O
ATOM	2194	OH2	WAT	S	88	25.957	12.097	36.912	1.00	36.00	O
ATOM	2195	OH2	WAT	S	89	30.437	33.017	13.345	1.00	48.23	O
ATOM	2196	OH2	WAT	S	90	37.438	31.243	38.851	1.00	49.55	O
ATOM	2197	OH2	WAT	S	91	19.458	34.402	26.135	1.00	43.19	O
ATOM	2198	OH2	WAT	S	92	58.475	14.110	43.025	1.00	52.43	O
ATOM	2199	OH2	WAT	S	93	22.370	12.343	33.413	1.00	38.81	O
ATOM	2200	OH2	WAT	S	94	40.451	32.550	14.618	1.00	58.82	O
ATOM	2201	OH2	WAT	S	95	54.156	16.243	28.025	1.00	48.89	O
ATOM	2202	OH2	WAT	S	96	12.252	20.214	20.621	1.00	44.94	O
ATOM	2203	OH2	WAT	S	97	23.229	23.360	11.991	1.00	68.77	O
ATOM	2204	OH2	WAT	S	98	13.653	34.410	21.575	1.00	50.48	O
ATOM	2205	OH2	WAT	S	99	29.882	16.048	51.774	1.00	53.76	O
ATOM	2206	OH2	WAT	S	100	34.851	9.916	49.548	1.00	36.26	O
ATOM	2207	OH2	WAT	S	101	19.731	39.777	18.001	1.00	49.92	O
ATOM	2208	OH2	WAT	S	102	32.811	27.414	53.799	1.00	52.41	O
ATOM	2209	OH2	WAT	S	103	54.958	10.260	45.018	1.00	61.62	O

Figure 8MM

ATOM	2210	OH2 WAT S 104	26.795	8.100	24.207	1.00	39.76	O
ATOM	2211	OH2 WAT S 105	39.473	25.414	23.627	1.00	33.71	O
ATOM	2212	OH2 WAT S 106	42.444	29.282	22.951	1.00	55.44	O
ATOM	2213	OH2 WAT S 107	54.310	2.465	42.338	1.00	81.43	O
ATOM	2214	OH2 WAT S 108	32.145	22.002	57.937	1.00	69.67	O
ATOM	2215	OH2 WAT S 109	41.182	36.953	24.858	1.00	30.32	O
ATOM	2216	OH2 WAT S 110	51.408	18.218	47.152	1.00	39.60	O
ATOM	2217	OH2 WAT S 111	31.229	18.063	15.169	1.00	58.09	O
ATOM	2218	OH2 WAT S 112	47.275	32.201	26.136	1.00	75.84	O
ATOM	2219	OH2 WAT S 113	48.484	-3.729	34.355	1.00	49.03	O
ATOM	2220	OH2 WAT S 114	17.441	23.890	30.338	1.00	38.38	O
ATOM	2221	OH2 WAT S 115	23.853	34.456	13.715	1.00	61.47	O
ATOM	2222	OH2 WAT S 116	22.764	12.193	26.654	1.00	52.95	O
ATOM	2223	OH2 WAT S 117	23.980	15.802	45.364	1.00	50.14	O
ATOM	2224	OH2 WAT S 118	35.972	34.774	45.163	1.00	60.33	O
ATOM	2225	OH2 WAT S 119	37.807	19.398	24.708	1.00	61.62	O
ATOM	2226	OH2 WAT S 120	18.366	12.430	18.822	1.00	41.37	O
ATOM	2227	OH2 WAT S 121	28.690	28.104	42.174	1.00	64.02	O
ATOM	2228	OH2 WAT S 122	49.307	6.503	32.285	1.00	36.36	O
ATOM	2229	OH2 WAT S 123	43.722	4.110	29.378	1.00	44.89	O
ATOM	2230	OH2 WAT S 124	26.343	29.966	7.876	1.00	62.82	O
ATOM	2231	OH2 WAT S 125	16.563	15.951	28.970	1.00	51.98	O
ATOM	2232	OH2 WAT S 126	20.175	23.841	38.565	1.00	55.56	O
ATOM	2233	OH2 WAT S 127	20.576	26.542	40.567	1.00	46.61	O
ATOM	2234	OH2 WAT S 128	40.494	17.605	54.649	1.00	38.00	O
ATOM	2235	OH2 WAT S 129	32.794	26.121	16.217	1.00	40.24	O
ATOM	2236	OH2 WAT S 130	32.054	30.620	12.330	1.00	41.15	O
ATOM	2237	OH2 WAT S 131	24.132	9.866	33.561	1.00	38.41	O
ATOM	2238	OH2 WAT S 132	39.539	30.733	24.819	1.00	33.26	O
ATOM	2239	OH2 WAT S 133	29.283	9.374	37.492	1.00	32.82	O
ATOM	2240	OH2 WAT S 134	27.129	12.130	39.369	1.00	36.01	O
ATOM	2241	OH2 WAT S 135	16.237	13.797	27.208	1.00	39.89	O
ATOM	2242	OH2 WAT S 136	35.590	17.878	24.571	1.00	35.55	O
ATOM	2243	OH2 WAT S 137	22.902	19.820	36.431	1.00	38.01	O
ATOM	2244	OH2 WAT S 138	52.919	12.766	42.677	1.00	32.51	O
ATOM	2245	OH2 WAT S 139	30.240	31.220	40.494	1.00	52.62	O
ATOM	2246	OH2 WAT S 140	37.369	27.649	21.696	1.00	36.64	O
ATOM	2247	OH2 WAT S 141	42.712	1.260	30.209	1.00	50.21	O
ATOM	2248	OH2 WAT S 142	24.778	5.524	41.136	1.00	37.52	O
ATOM	2249	OH2 WAT S 143	49.022	30.149	44.178	1.00	39.81	O
ATOM	2250	OH2 WAT S 144	44.239	27.252	54.601	1.00	45.46	O
ATOM	2251	OH2 WAT S 145	34.188	24.808	21.734	1.00	47.86	O
ATOM	2252	OH2 WAT S 146	32.237	13.936	23.957	1.00	47.59	O
ATOM	2253	OH2 WAT S 147	24.826	31.905	13.806	1.00	57.46	O
ATOM	2254	OH2 WAT S 148	35.287	19.774	55.093	1.00	53.61	O
ATOM	2255	OH2 WAT S 149	37.524	19.283	55.693	1.00	45.09	O
ATOM	2256	OH2 WAT S 150	35.302	8.641	24.481	1.00	51.58	O
ATOM	2257	OH2 WAT S 151	59.678	21.694	39.012	1.00	57.80	O
ATOM	2258	OH2 WAT S 152	36.143	-0.978	27.333	1.00	48.54	O
ATOM	2259	OH2 WAT S 153	14.265	20.928	14.183	1.00	62.49	O
ATOM	2260	OH2 WAT S 154	23.418	29.667	49.908	1.00	54.71	O
ATOM	2261	OH2 WAT S 155	38.604	24.411	54.120	1.00	52.33	O
ATOM	2262	OH2 WAT S 156	27.339	19.921	12.078	1.00	61.52	O
ATOM	2263	OH2 WAT S 157	55.513	12.418	43.797	1.00	48.44	O
ATOM	2264	OH2 WAT S 158	41.570	30.546	53.130	1.00	44.74	O
ATOM	2265	OH2 WAT S 159	30.332	6.416	25.709	1.00	48.89	O
ATOM	2266	OH2 WAT S 160	39.099	33.676	39.711	1.00	61.97	O
ATOM	2267	OH2 WAT S 161	25.263	8.969	43.752	1.00	53.20	O

Figure 8NN

ATOM	2268	OH2 WAT S 162	38.420	33.913	42.190	1.00	50.80	O
ATOM	2269	OH2 WAT S 163	41.309	37.709	36.508	1.00	59.09	O
ATOM	2270	OH2 WAT S 164	39.795	36.567	20.290	1.00	53.69	O
ATOM	2271	OH2 WAT S 165	17.433	22.843	32.869	1.00	39.36	O
ATOM	2272	OH2 WAT S 166	37.147	1.819	26.855	1.00	35.01	O
ATOM	2273	OH2 WAT S 167	26.808	29.856	51.140	1.00	34.22	O
ATOM	2274	OH2 WAT S 168	20.735	23.758	11.662	1.00	55.01	O
ATOM	2275	OH2 WAT S 169	37.554	20.226	20.434	1.00	54.40	O
ATOM	2276	OH2 WAT S 170	36.378	37.998	37.846	1.00	58.07	O
ATOM	2277	OH2 WAT S 171	18.421	12.604	25.862	1.00	45.72	O
ATOM	2278	OH2 WAT S 172	51.494	14.522	49.973	1.00	41.63	O
ATOM	2279	OH2 WAT S 173	39.132	29.730	18.357	1.00	56.55	O
ATOM	2280	OH2 WAT S 174	45.973	38.322	32.563	1.00	51.66	O
ATOM	2281	OH2 WAT S 175	51.494	34.523	30.878	1.00	51.26	O
ATOM	2282	OH2 WAT S 176	56.959	19.644	38.366	1.00	45.11	O
ATOM	2283	OH2 WAT S 177	27.770	26.356	13.109	1.00	51.59	O
ATOM	2284	OH2 WAT S 178	39.887	26.852	53.281	1.00	46.00	O
ATOM	2285	OH2 WAT S 179	31.617	7.635	49.956	1.00	42.18	O
ATOM	2286	OH2 WAT S 180	43.461	14.656	22.788	1.00	53.80	O
ATOM	2287	OH2 WAT S 181	39.538	18.123	23.159	1.00	56.96	O
ATOM	2288	OH2 WAT S 182	36.797	22.058	22.239	1.00	50.84	O
ATOM	2289	OH2 WAT S 183	15.670	13.383	19.237	1.00	48.91	O
ATOM	2290	OH2 WAT S 184	40.886	32.074	51.060	1.00	46.64	O
ATOM	2291	OH2 WAT S 185	46.429	3.853	37.759	1.00	47.74	O
ATOM	2292	OH2 WAT S 186	51.828	28.947	45.746	1.00	49.80	O
ATOM	2293	OH2 WAT S 187	37.821	12.326	23.248	1.00	59.05	O
ATOM	2294	OH2 WAT S 188	41.682	4.205	47.107	1.00	54.60	O
ATOM	2295	OH2 WAT S 189	24.396	40.185	10.597	1.00	65.04	O
ATOM	2296	OH2 WAT S 190	60.922	7.799	33.813	1.00	57.91	O
ATOM	2297	OH2 WAT S 191	59.350	17.293	37.717	1.00	60.20	O
ATOM	2298	OH2 WAT S 192	26.261	35.674	43.488	1.00	58.18	O
ATOM	2299	OH2 WAT S 193	32.421	28.845	41.543	1.00	57.00	O
ATOM	2300	OH2 WAT S 194	15.680	35.028	23.064	1.00	64.42	O
ATOM	2301	OH2 WAT S 195	38.794	4.828	49.890	1.00	58.11	O
ATOM	2302	OH2 WAT S 196	31.824	29.606	54.893	1.00	42.20	O
ATOM	2303	OH2 WAT S 197	56.033	18.872	46.171	1.00	43.23	O
ATOM	2304	OH2 WAT S 198	9.962	19.461	22.243	1.00	51.63	O
ATOM	2305	OH2 WAT S 199	18.489	10.150	20.863	1.00	54.24	O
ATOM	2306	OH2 WAT S 200	33.066	12.917	52.359	1.00	57.46	O
ATOM	2307	OH2 WAT S 201	30.483	0.016	45.976	1.00	48.00	O
ATOM	2308	OH2 WAT S 202	24.662	11.625	21.208	1.00	44.16	O
ATOM	2309	OH2 WAT S 203	46.715	24.249	23.656	1.00	41.75	O
ATOM	2310	OH2 WAT S 204	17.418	39.478	23.453	1.00	59.60	O
ATOM	2311	OH2 WAT S 205	36.419	43.376	23.037	1.00	52.17	O
ATOM	2312	OH2 WAT S 206	34.959	24.297	19.008	1.00	56.28	O
ATOM	2313	OH2 WAT S 207	43.180	39.844	30.801	1.00	59.11	O
ATOM	2314	OH2 WAT S 208	42.011	9.023	23.239	1.00	63.89	O
ATOM	2315	OH2 WAT S 209	22.676	12.375	19.314	1.00	53.20	O
ATOM	2316	OH2 WAT S 210	17.558	10.038	24.521	1.00	61.87	O
ATOM	2317	OH2 WAT S 211	48.462	5.142	44.693	1.00	58.47	O
ATOM	2318	OH2 WAT S 212	52.898	16.855	49.469	1.00	50.86	O
ATOM	2319	OH2 WAT S 213	37.726	41.234	24.591	1.00	47.40	O
ATOM	2320	OH2 WAT S 214	35.306	2.409	51.472	1.00	56.00	O
ATOM	2321	OH2 WAT S 215	34.107	13.946	54.277	1.00	59.41	O
ATOM	2322	OH2 WAT S 216	39.426	39.934	35.092	1.00	57.35	O
ATOM	2323	OH2 WAT S 217	49.879	15.750	52.077	1.00	59.87	O
ATOM	2324	OH2 WAT S 218	26.673	9.696	22.177	1.00	55.44	O
ATOM	2325	OH2 WAT S 219	22.122	22.199	39.182	1.00	45.37	O

Figure 800

ATOM	2326	OH2 WAT S 220	44.174	7.424	25.089	1.00	54.13	O
ATOM	2327	OH2 WAT S 221	53.760	5.884	44.382	1.00	54.00	O
END								

Figure 9A

REMARK coordinates from minimization and B-factor refinement
 REMARK refinement resolution: 500.0 - 1.9 Å
 REMARK starting r= 0.2224 free_r= 0.2451
 REMARK final r= 0.2185 free_r= 0.2440
 REMARK rmsd bonds= 0.006037 rmsd angles= 1.31354
 REMARK B rmsd for bonded mainchain atoms= 0.696 target= 1.5
 REMARK B rmsd for bonded sidechain atoms= 0.779 target= 2.0
 REMARK B rmsd for angle mainchain atoms= 1.253 target= 2.0
 REMARK B rmsd for angle sidechain atoms= 1.286 target= 2.5
 REMARK target= mlf final wa= 0.882454 final rweight=0.367395
 REMARK cycles= 1 coordinate steps= 150 B-factor steps= 100
 REMARK sg= C222(1) a= 83.05 b= 112.82 c= 74.12 alpha= 90 beta= 90 gamma= 90
 REMARK topology file 1 : MSI_CNX_TOPPAR:protein.top
 REMARK topology file 2 : gll.top
 REMARK topology file 3 : MSI_CNX_TOPPAR:water.top
 REMARK topology file 4 : MSI_CNX_TOPPAR:ion.top
 REMARK topology file 5 : uma.top
 REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
 REMARK parameter file 2 : gll.par
 REMARK parameter file 3 : MSI_CNX_TOPPAR:water_rep.param
 REMARK parameter file 4 : MSI_CNX_TOPPAR:ion.param
 REMARK parameter file 5 : uma.par
 REMARK molecular structure file: automatic
 REMARK input coordinates: cns8_reb.pdb
 REMARK reflection file= ../../mosflm_esrf/muri_tm_free_unique.fob
 REMARK ncs= none
 REMARK B-correction resolution: 6.0 - 1.9
 REMARK initial B-factor correction applied to fobs :
 REMARK B11= 3.991 B22= -8.126 B33= 4.136
 REMARK B12= 0.000 B13= 0.000 B23= 0.000
 REMARK B-factor correction applied to coordinate array B: -0.648
 REMARK bulk solvent: (Mask) density level= 0.373583 e/Å³, B-factor= 48.6342 Å²
 REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
 REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
 REMARK theoretical total number of refl. in resol. range: 27807 (100.0 %)
 REMARK number of unobserved reflections (no entry or |F|=0): 1265 (4.5 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 26542 (95.5 %)
 REMARK number of reflections in working set: 25198 (90.6 %)
 REMARK number of reflections in test set: 1344 (4.8 %)
 CRYST1 83.050 112.820 74.120 90.00 90.00 90.00 C 2 2 21
 REMARK FILENAME="refine.pdb"
 REMARK DATE:Dec-11-2002 01:22:55 created by user: kemiti
 REMARK Written by CNX VERSION:2000

ATOM	1	CB	PRO A 20	59.140	10.232	37.959	1.00	42.27	C
ATOM	2	CG	PRO A 20	60.118	9.060	37.995	1.00	42.63	C
ATOM	3	C	PRO A 20	58.220	11.395	35.947	1.00	41.62	C
ATOM	4	O	PRO A 20	59.154	12.042	35.457	1.00	41.55	O
ATOM	5	N	PRO A 20	59.374	9.210	35.773	1.00	42.45	N
ATOM	6	CD	PRO A 20	60.587	8.879	36.540	1.00	42.74	C
ATOM	7	CA	PRO A 20	58.468	10.041	36.605	1.00	42.13	C
ATOM	8	N	ARG A 21	56.961	11.820	35.938	1.00	40.77	N
ATOM	9	CA	ARG A 21	56.586	13.100	35.341	1.00	39.90	C
ATOM	10	CB	ARG A 21	55.792	12.875	34.053	1.00	41.14	C
ATOM	11	CG	ARG A 21	55.782	11.436	33.550	1.00	43.27	C
ATOM	12	CD	ARG A 21	54.592	10.646	34.098	1.00	44.85	C
ATOM	13	NE	ARG A 21	54.310	9.479	33.264	1.00	46.30	N
ATOM	14	CZ	ARG A 21	53.249	8.687	33.392	1.00	46.83	C

Figure 9B

ATOM	15	NH1 ARG A 21	52.338	8.918	34.332	1.00	46.85	N
ATOM	16	NH2 ARG A 21	53.095	7.661	32.562	1.00	47.39	N
ATOM	17	C ARG A 21	55.738	13.891	36.327	1.00	38.37	C
ATOM	18	O ARG A 21	55.175	13.321	37.261	1.00	38.35	O
ATOM	19	N PRO A 22	55.635	15.217	36.134	1.00	36.71	N
ATOM	20	CD PRO A 22	56.249	16.056	35.092	1.00	36.55	C
ATOM	21	CA PRO A 22	54.834	16.026	37.053	1.00	35.10	C
ATOM	22	CB PRO A 22	54.956	17.441	36.483	1.00	35.61	C
ATOM	23	CG PRO A 22	55.312	17.226	35.048	1.00	36.83	C
ATOM	24	C PRO A 22	53.392	15.548	37.177	1.00	33.33	C
ATOM	25	O PRO A 22	52.737	15.204	36.193	1.00	33.12	O
ATOM	26	N THR A 23	52.926	15.513	38.416	1.00	31.31	N
ATOM	27	CA THR A 23	51.579	15.073	38.734	1.00	28.82	C
ATOM	28	CB THR A 23	51.528	14.500	40.165	1.00	28.86	C
ATOM	29	OG1 THR A 23	52.345	13.324	40.230	1.00	29.00	O
ATOM	30	CG2 THR A 23	50.096	14.159	40.556	1.00	27.97	C
ATOM	31	C THR A 23	50.615	16.241	38.626	1.00	27.22	C
ATOM	32	O THR A 23	50.767	17.256	39.307	1.00	26.28	O
ATOM	33	N VAL A 24	49.622	16.090	37.760	1.00	26.19	N
ATOM	34	CA VAL A 24	48.623	17.123	37.564	1.00	25.17	C
ATOM	35	CB VAL A 24	48.654	17.655	36.116	1.00	25.46	C
ATOM	36	CG1 VAL A 24	47.488	18.596	35.879	1.00	25.44	C
ATOM	37	CG2 VAL A 24	49.976	18.377	35.867	1.00	25.54	C
ATOM	38	C VAL A 24	47.222	16.617	37.870	1.00	24.64	C
ATOM	39	O VAL A 24	46.786	15.593	37.344	1.00	24.53	O
ATOM	40	N LEU A 25	46.525	17.350	38.728	1.00	23.92	N
ATOM	41	CA LEU A 25	45.163	17.004	39.093	1.00	23.77	C
ATOM	42	CB LEU A 25	44.910	17.283	40.579	1.00	23.48	C
ATOM	43	CG LEU A 25	43.437	17.288	41.007	1.00	24.15	C
ATOM	44	CD1 LEU A 25	42.844	15.882	40.865	1.00	23.60	C
ATOM	45	CD2 LEU A 25	43.322	17.779	42.455	1.00	24.84	C
ATOM	46	C LEU A 25	44.189	17.840	38.279	1.00	23.16	C
ATOM	47	O LEU A 25	44.368	19.048	38.143	1.00	22.71	O
ATOM	48	N VAL A 26	43.177	17.183	37.723	1.00	23.08	N
ATOM	49	CA VAL A 26	42.122	17.867	36.991	1.00	22.84	C
ATOM	50	CB VAL A 26	42.017	17.396	35.525	1.00	23.04	C
ATOM	51	CG1 VAL A 26	40.884	18.138	34.832	1.00	22.64	C
ATOM	52	CG2 VAL A 26	43.346	17.665	34.788	1.00	22.73	C
ATOM	53	C VAL A 26	40.852	17.482	37.764	1.00	23.16	C
ATOM	54	O VAL A 26	40.520	16.295	37.876	1.00	23.27	O
ATOM	55	N PHE A 27	40.172	18.485	38.315	1.00	22.82	N
ATOM	56	CA PHE A 27	38.967	18.277	39.117	1.00	23.33	C
ATOM	57	CB PHE A 27	39.168	18.865	40.518	1.00	23.65	C
ATOM	58	CG PHE A 27	37.902	18.924	41.340	1.00	24.66	C
ATOM	59	CD1 PHE A 27	37.456	17.805	42.042	1.00	24.66	C
ATOM	60	CD2 PHE A 27	37.125	20.078	41.360	1.00	24.42	C
ATOM	61	CE1 PHE A 27	36.253	17.834	42.748	1.00	24.95	C
ATOM	62	CE2 PHE A 27	35.917	20.119	42.063	1.00	24.93	C
ATOM	63	CZ PHE A 27	35.480	18.995	42.756	1.00	25.18	C
ATOM	64	C PHE A 27	37.687	18.879	38.547	1.00	23.64	C
ATOM	65	O PHE A 27	37.705	19.941	37.931	1.00	24.06	O
ATOM	66	N ASP A 28	36.575	18.187	38.773	1.00	23.82	N
ATOM	67	CA ASP A 28	35.253	18.651	38.358	1.00	23.43	C
ATOM	68	CB ASP A 28	34.957	18.343	36.885	1.00	23.14	C
ATOM	69	CG ASP A 28	33.602	18.896	36.443	1.00	23.57	C
ATOM	70	OD1 ASP A 28	32.893	18.244	35.646	1.00	23.23	O
ATOM	71	OD2 ASP A 28	33.239	19.998	36.903	1.00	24.14	O
ATOM	72	C ASP A 28	34.226	17.924	39.202	1.00	23.59	C

Figure 9C

ATOM	73	O	ASP	A	28	34.540	16.928	39.856	1.00	23.62	O
ATOM	74	N	SER	A	29	32.996	18.421	39.179	1.00	23.49	N
ATOM	75	CA	SER	A	29	31.904	17.800	39.913	1.00	23.63	C
ATOM	76	CB	SER	A	29	30.717	18.757	39.969	1.00	23.55	C
ATOM	77	OG	SER	A	29	30.313	19.099	38.657	1.00	24.80	O
ATOM	78	C	SER	A	29	31.500	16.508	39.186	1.00	23.67	C
ATOM	79	O	SER	A	29	31.007	15.564	39.804	1.00	23.60	O
ATOM	80	N	GLY	A	30	31.721	16.471	37.874	1.00	23.60	N
ATOM	81	CA	GLY	A	30	31.377	15.294	37.096	1.00	23.98	C
ATOM	82	C	GLY	A	30	32.306	15.003	35.934	1.00	23.76	C
ATOM	83	O	GLY	A	30	33.529	14.975	36.099	1.00	24.03	O
ATOM	84	N	VAL	A	31	31.737	14.799	34.747	1.00	23.50	N
ATOM	85	CA	VAL	A	31	32.536	14.491	33.566	1.00	23.42	C
ATOM	86	CB	VAL	A	31	31.753	13.579	32.565	1.00	24.04	C
ATOM	87	CG1	VAL	A	31	31.393	12.253	33.231	1.00	24.26	C
ATOM	88	CG2	VAL	A	31	30.484	14.277	32.079	1.00	24.22	C
ATOM	89	C	VAL	A	31	33.054	15.712	32.792	1.00	23.39	C
ATOM	90	O	VAL	A	31	33.948	15.576	31.960	1.00	22.93	O
ATOM	91	N	GLY	A	32	32.503	16.892	33.062	1.00	23.03	N
ATOM	92	CA	GLY	A	32	32.933	18.083	32.341	1.00	23.53	C
ATOM	93	C	GLY	A	32	34.434	18.316	32.374	1.00	23.94	C
ATOM	94	O	GLY	A	32	35.018	18.803	31.406	1.00	23.61	O
ATOM	95	N	GLY	A	33	35.058	17.971	33.496	1.00	23.88	N
ATOM	96	CA	GLY	A	33	36.492	18.149	33.641	1.00	24.00	C
ATOM	97	C	GLY	A	33	37.272	17.468	32.537	1.00	24.04	C
ATOM	98	O	GLY	A	33	38.347	17.921	32.174	1.00	24.11	O
ATOM	99	N	LEU	A	34	36.720	16.389	31.990	1.00	24.29	N
ATOM	100	CA	LEU	A	34	37.377	15.653	30.923	1.00	24.12	C
ATOM	101	CB	LEU	A	34	36.586	14.384	30.589	1.00	24.26	C
ATOM	102	CG	LEU	A	34	36.559	13.331	31.703	1.00	24.52	C
ATOM	103	CD1	LEU	A	34	35.609	12.209	31.311	1.00	24.48	C
ATOM	104	CD2	LEU	A	34	37.969	12.795	31.940	1.00	24.92	C
ATOM	105	C	LEU	A	34	37.586	16.474	29.652	1.00	23.95	C
ATOM	106	O	LEU	A	34	38.524	16.212	28.907	1.00	24.13	O
ATOM	107	N	SER	A	35	36.729	17.461	29.394	1.00	23.76	N
ATOM	108	CA	SER	A	35	36.916	18.270	28.191	1.00	24.21	C
ATOM	109	CB	SER	A	35	35.694	19.159	27.909	1.00	23.45	C
ATOM	110	OG	SER	A	35	35.531	20.175	28.886	1.00	23.98	O
ATOM	111	C	SER	A	35	38.173	19.137	28.347	1.00	24.34	C
ATOM	112	O	SER	A	35	38.910	19.357	27.383	1.00	24.46	O
ATOM	113	N	VAL	A	36	38.416	19.611	29.564	1.00	24.57	N
ATOM	114	CA	VAL	A	36	39.582	20.444	29.847	1.00	25.04	C
ATOM	115	CB	VAL	A	36	39.445	21.160	31.211	1.00	25.08	C
ATOM	116	CG1	VAL	A	36	40.682	22.024	31.482	1.00	25.12	C
ATOM	117	CG2	VAL	A	36	38.188	22.020	31.212	1.00	25.41	C
ATOM	118	C	VAL	A	36	40.824	19.572	29.863	1.00	25.61	C
ATOM	119	O	VAL	A	36	41.869	19.935	29.313	1.00	25.10	O
ATOM	120	N	TYR	A	37	40.704	18.407	30.494	1.00	26.15	N
ATOM	121	CA	TYR	A	37	41.816	17.478	30.550	1.00	26.62	C
ATOM	122	CB	TYR	A	37	41.427	16.236	31.367	1.00	26.04	C
ATOM	123	CG	TYR	A	37	42.210	14.999	31.006	1.00	26.11	C
ATOM	124	CD1	TYR	A	37	41.696	14.065	30.106	1.00	26.04	C
ATOM	125	CE1	TYR	A	37	42.431	12.937	29.737	1.00	26.06	C
ATOM	126	CD2	TYR	A	37	43.483	14.777	31.532	1.00	26.28	C
ATOM	127	CE2	TYR	A	37	44.227	13.654	31.167	1.00	26.29	C
ATOM	128	CZ	TYR	A	37	43.694	12.742	30.274	1.00	26.29	C
ATOM	129	OH	TYR	A	37	44.414	11.627	29.922	1.00	26.91	O
ATOM	130	C	TYR	A	37	42.243	17.072	29.139	1.00	27.35	C

Figure 9D

ATOM	131	O	TYR A 37	43.431	16.998	28.840	1.00	27.42	O
ATOM	132	N	ASP A 38	41.270	16.815	28.274	1.00	28.14	N
ATOM	133	CA	ASP A 38	41.554	16.403	26.906	1.00	29.79	C
ATOM	134	CB	ASP A 38	40.234	16.233	26.149	1.00	30.37	C
ATOM	135	CG	ASP A 38	40.355	15.321	24.945	1.00	31.87	C
ATOM	136	OD1	ASP A 38	41.285	14.487	24.904	1.00	32.39	O
ATOM	137	OD2	ASP A 38	39.495	15.427	24.039	1.00	32.89	O
ATOM	138	C	ASP A 38	42.472	17.411	26.200	1.00	30.27	C
ATOM	139	O	ASP A 38	43.406	17.018	25.500	1.00	30.51	O
ATOM	140	N	GLU A 39	42.213	18.702	26.399	1.00	30.88	N
ATOM	141	CA	GLU A 39	43.032	19.759	25.799	1.00	32.05	C
ATOM	142	CB	GLU A 39	42.367	21.123	25.992	1.00	32.93	C
ATOM	143	CG	GLU A 39	41.075	21.325	25.219	1.00	35.19	C
ATOM	144	CD	GLU A 39	41.310	21.703	23.766	1.00	36.77	C
ATOM	145	OE1	GLU A 39	40.316	21.968	23.056	1.00	38.63	O
ATOM	146	OE2	GLU A 39	42.481	21.743	23.333	1.00	37.13	O
ATOM	147	C	GLU A 39	44.417	19.786	26.447	1.00	32.29	C
ATOM	148	O	GLU A 39	45.435	19.941	25.772	1.00	31.60	O
ATOM	149	N	ILE A 40	44.454	19.640	27.765	1.00	32.60	N
ATOM	150	CA	ILE A 40	45.726	19.646	28.472	1.00	33.11	C
ATOM	151	CB	ILE A 40	45.517	19.585	29.998	1.00	32.73	C
ATOM	152	CG2	ILE A 40	46.867	19.494	30.709	1.00	32.95	C
ATOM	153	CG1	ILE A 40	44.750	20.824	30.468	1.00	32.28	C
ATOM	154	CD1	ILE A 40	44.401	20.809	31.947	1.00	32.55	C
ATOM	155	C	ILE A 40	46.623	18.486	28.040	1.00	33.95	C
ATOM	156	O	ILE A 40	47.806	18.688	27.753	1.00	33.92	O
ATOM	157	N	ARG A 41	46.072	17.275	27.982	1.00	34.92	N
ATOM	158	CA	ARG A 41	46.872	16.118	27.593	1.00	36.38	C
ATOM	159	CB	ARG A 41	46.114	14.805	27.815	1.00	36.95	C
ATOM	160	CG	ARG A 41	44.970	14.556	26.850	1.00	38.65	C
ATOM	161	CD	ARG A 41	44.714	13.060	26.676	1.00	40.05	C
ATOM	162	NE	ARG A 41	43.499	12.807	25.905	1.00	41.30	N
ATOM	163	CZ	ARG A 41	43.076	11.600	25.541	1.00	41.65	C
ATOM	164	NH1	ARG A 41	43.770	10.518	25.872	1.00	41.91	N
ATOM	165	NH2	ARG A 41	41.952	11.475	24.847	1.00	42.04	N
ATOM	166	C	ARG A 41	47.324	16.188	26.141	1.00	37.23	C
ATOM	167	O	ARG A 41	48.347	15.618	25.780	1.00	36.68	O
ATOM	168	N	HIS A 42	46.554	16.870	25.303	1.00	38.38	N
ATOM	169	CA	HIS A 42	46.935	16.990	23.905	1.00	39.98	C
ATOM	170	CB	HIS A 42	45.803	17.637	23.102	1.00	40.97	C
ATOM	171	CG	HIS A 42	46.096	17.757	21.640	1.00	42.48	C
ATOM	172	CD2	HIS A 42	45.580	17.104	20.571	1.00	43.17	C
ATOM	173	ND1	HIS A 42	47.032	18.634	21.137	1.00	43.19	N
ATOM	174	CE1	HIS A 42	47.080	18.519	19.821	1.00	43.48	C
ATOM	175	NE2	HIS A 42	46.208	17.597	19.452	1.00	43.37	N
ATOM	176	C	HIS A 42	48.207	17.836	23.822	1.00	40.26	C
ATOM	177	O	HIS A 42	49.053	17.625	22.955	1.00	40.52	O
ATOM	178	N	LEU A 43	48.341	18.783	24.747	1.00	40.38	N
ATOM	179	CA	LEU A 43	49.500	19.662	24.795	1.00	40.54	C
ATOM	180	CB	LEU A 43	49.087	21.020	25.372	1.00	40.84	C
ATOM	181	CG	LEU A 43	50.118	22.150	25.372	1.00	40.88	C
ATOM	182	CD1	LEU A 43	50.521	22.468	23.935	1.00	41.44	C
ATOM	183	CD2	LEU A 43	49.533	23.386	26.043	1.00	40.98	C
ATOM	184	C	LEU A 43	50.638	19.065	25.631	1.00	40.74	C
ATOM	185	O	LEU A 43	51.812	19.224	25.299	1.00	40.80	O
ATOM	186	N	LEU A 44	50.284	18.379	26.715	1.00	40.77	N
ATOM	187	CA	LEU A 44	51.263	17.759	27.615	1.00	40.94	C
ATOM	188	CB	LEU A 44	51.281	18.515	28.942	1.00	40.98	C

Figure 9E

ATOM	189	CG	LEU A 44	51.493	20.023	28.814	1.00	40.82	C
ATOM	190	CD1	LEU A 44	51.011	20.721	30.066	1.00	40.73	C
ATOM	191	CD2	LEU A 44	52.964	20.307	28.550	1.00	41.26	C
ATOM	192	C	LEU A 44	50.841	16.310	27.841	1.00	41.15	C
ATOM	193	O	LEU A 44	50.325	15.955	28.903	1.00	41.15	O
ATOM	194	N	PRO A 45	51.075	15.445	26.843	1.00	41.22	N
ATOM	195	CD	PRO A 45	51.677	15.806	25.545	1.00	41.47	C
ATOM	196	CA	PRO A 45	50.725	14.021	26.873	1.00	41.13	C
ATOM	197	CB	PRO A 45	50.900	13.604	25.413	1.00	41.22	C
ATOM	198	CG	PRO A 45	52.040	14.456	24.968	1.00	41.02	C
ATOM	199	C	PRO A 45	51.418	13.044	27.826	1.00	41.10	C
ATOM	200	O	PRO A 45	50.885	11.961	28.077	1.00	41.10	O
ATOM	201	N	ASP A 46	52.576	13.400	28.373	1.00	40.74	N
ATOM	202	CA	ASP A 46	53.280	12.454	29.240	1.00	40.25	C
ATOM	203	CB	ASP A 46	54.765	12.400	28.854	1.00	41.61	C
ATOM	204	CG	ASP A 46	54.974	12.058	27.391	1.00	43.12	C
ATOM	205	OD1	ASP A 46	54.498	10.985	26.956	1.00	43.83	O
ATOM	206	OD2	ASP A 46	55.618	12.863	26.676	1.00	44.38	O
ATOM	207	C	ASP A 46	53.176	12.666	30.749	1.00	38.90	C
ATOM	208	O	ASP A 46	53.812	11.941	31.511	1.00	39.20	O
ATOM	209	N	LEU A 47	52.381	13.636	31.185	1.00	36.81	N
ATOM	210	CA	LEU A 47	52.249	13.907	32.614	1.00	34.74	C
ATOM	211	CB	LEU A 47	51.450	15.194	32.833	1.00	34.94	C
ATOM	212	CG	LEU A 47	51.913	16.438	32.077	1.00	34.69	C
ATOM	213	CD1	LEU A 47	51.018	17.604	32.434	1.00	35.28	C
ATOM	214	CD2	LEU A 47	53.358	16.746	32.428	1.00	35.67	C
ATOM	215	C	LEU A 47	51.564	12.774	33.364	1.00	33.31	C
ATOM	216	O	LEU A 47	50.968	11.881	32.758	1.00	33.06	O
ATOM	217	N	HIS A 48	51.678	12.800	34.689	1.00	31.91	N
ATOM	218	CA	HIS A 48	51.013	11.808	35.530	1.00	30.54	C
ATOM	219	CB	HIS A 48	51.794	11.524	36.814	1.00	30.57	C
ATOM	220	CG	HIS A 48	51.017	10.729	37.822	1.00	30.87	C
ATOM	221	CD2	HIS A 48	50.251	9.620	37.685	1.00	30.97	C
ATOM	222	ND1	HIS A 48	50.986	11.050	39.163	1.00	31.68	N
ATOM	223	CE1	HIS A 48	50.236	10.173	39.808	1.00	31.33	C
ATOM	224	NE2	HIS A 48	49.778	9.295	38.933	1.00	31.22	N
ATOM	225	C	HIS A 48	49.704	12.490	35.900	1.00	29.55	C
ATOM	226	O	HIS A 48	49.668	13.331	36.802	1.00	29.03	O
ATOM	227	N	TYR A 49	48.641	12.139	35.194	1.00	28.24	N
ATOM	228	CA	TYR A 49	47.349	12.754	35.441	1.00	27.76	C
ATOM	229	CB	TYR A 49	46.555	12.878	34.135	1.00	28.09	C
ATOM	230	CG	TYR A 49	47.108	13.881	33.145	1.00	28.48	C
ATOM	231	CD1	TYR A 49	47.890	13.471	32.066	1.00	28.86	C
ATOM	232	CE1	TYR A 49	48.375	14.395	31.124	1.00	29.12	C
ATOM	233	CD2	TYR A 49	46.823	15.242	33.275	1.00	28.88	C
ATOM	234	CE2	TYR A 49	47.301	16.173	32.350	1.00	29.31	C
ATOM	235	CZ	TYR A 49	48.075	15.741	31.275	1.00	29.63	C
ATOM	236	OH	TYR A 49	48.527	16.665	30.353	1.00	29.75	O
ATOM	237	C	TYR A 49	46.477	12.040	36.463	1.00	27.00	C
ATOM	238	O	TYR A 49	46.433	10.808	36.533	1.00	26.57	O
ATOM	239	N	ILE A 50	45.791	12.844	37.259	1.00	25.98	N
ATOM	240	CA	ILE A 50	44.854	12.340	38.243	1.00	24.91	C
ATOM	241	CB	ILE A 50	45.259	12.705	39.682	1.00	24.96	C
ATOM	242	CG2	ILE A 50	44.167	12.253	40.654	1.00	23.79	C
ATOM	243	CG1	ILE A 50	46.598	12.054	40.041	1.00	24.11	C
ATOM	244	CD1	ILE A 50	47.213	12.622	41.313	1.00	24.92	C
ATOM	245	C	ILE A 50	43.560	13.071	37.933	1.00	24.67	C
ATOM	246	O	ILE A 50	43.536	14.305	37.900	1.00	24.39	O

Figure 9F

ATOM	247	N	TYR	A	51	42.498	12.321	37.671	1.00	24.20	N
ATOM	248	CA	TYR	A	51	41.205	12.933	37.413	1.00	24.34	C
ATOM	249	CB	TYR	A	51	40.549	12.369	36.148	1.00	24.65	C
ATOM	250	CG	TYR	A	51	39.285	13.123	35.766	1.00	25.11	C
ATOM	251	CD1	TYR	A	51	38.018	12.626	36.076	1.00	25.28	C
ATOM	252	CE1	TYR	A	51	36.860	13.369	35.793	1.00	25.75	C
ATOM	253	CD2	TYR	A	51	39.366	14.376	35.157	1.00	25.76	C
ATOM	254	CE2	TYR	A	51	38.220	15.122	34.867	1.00	25.82	C
ATOM	255	CZ	TYR	A	51	36.974	14.620	35.189	1.00	26.04	C
ATOM	256	OH	TYR	A	51	35.856	15.394	34.926	1.00	25.60	O
ATOM	257	C	TYR	A	51	40.337	12.612	38.616	1.00	24.47	C
ATOM	258	O	TYR	A	51	40.221	11.451	39.014	1.00	24.67	O
ATOM	259	N	ALA	A	52	39.740	13.637	39.208	1.00	24.11	N
ATOM	260	CA	ALA	A	52	38.878	13.425	40.363	1.00	23.89	C
ATOM	261	CB	ALA	A	52	39.533	13.994	41.619	1.00	23.82	C
ATOM	262	C	ALA	A	52	37.533	14.090	40.131	1.00	23.96	C
ATOM	263	O	ALA	A	52	37.466	15.253	39.723	1.00	23.07	O
ATOM	264	N	PHE	A	53	36.461	13.347	40.372	1.00	23.37	N
ATOM	265	CA	PHE	A	53	35.132	13.906	40.208	1.00	23.51	C
ATOM	266	CB	PHE	A	53	34.474	13.388	38.909	1.00	23.73	C
ATOM	267	CG	PHE	A	53	34.310	11.889	38.838	1.00	24.04	C
ATOM	268	CD1	PHE	A	53	33.054	11.309	39.007	1.00	23.82	C
ATOM	269	CD2	PHE	A	53	35.398	11.066	38.559	1.00	24.45	C
ATOM	270	CE1	PHE	A	53	32.882	9.929	38.895	1.00	24.38	C
ATOM	271	CE2	PHE	A	53	35.242	9.679	38.445	1.00	24.39	C
ATOM	272	CZ	PHE	A	53	33.978	9.111	38.614	1.00	24.35	C
ATOM	273	C	PHE	A	53	34.276	13.625	41.444	1.00	23.79	C
ATOM	274	O	PHE	A	53	34.305	12.528	42.013	1.00	22.86	O
ATOM	275	N	ASP	A	54	33.533	14.642	41.868	1.00	23.79	N
ATOM	276	CA	ASP	A	54	32.682	14.541	43.051	1.00	24.06	C
ATOM	277	CB	ASP	A	54	32.563	15.916	43.714	1.00	23.89	C
ATOM	278	CG	ASP	A	54	31.963	15.840	45.109	1.00	23.89	C
ATOM	279	OD1	ASP	A	54	31.577	14.727	45.538	1.00	22.90	O
ATOM	280	OD2	ASP	A	54	31.880	16.894	45.772	1.00	23.05	O
ATOM	281	C	ASP	A	54	31.289	14.002	42.734	1.00	24.18	C
ATOM	282	O	ASP	A	54	30.312	14.750	42.734	1.00	23.82	O
ATOM	283	N	ASN	A	55	31.191	12.698	42.488	1.00	24.17	N
ATOM	284	CA	ASN	A	55	29.905	12.103	42.170	1.00	25.09	C
ATOM	285	CB	ASN	A	55	30.090	10.674	41.631	1.00	25.26	C
ATOM	286	CG	ASN	A	55	30.731	9.737	42.639	1.00	25.36	C
ATOM	287	OD1	ASN	A	55	31.791	10.028	43.201	1.00	24.79	O
ATOM	288	ND2	ASN	A	55	30.092	8.592	42.864	1.00	25.74	N
ATOM	289	C	ASN	A	55	28.970	12.110	43.376	1.00	25.56	C
ATOM	290	O	ASN	A	55	27.770	11.915	43.226	1.00	25.79	O
ATOM	291	N	VAL	A	56	29.520	12.362	44.561	1.00	25.66	N
ATOM	292	CA	VAL	A	56	28.731	12.405	45.794	1.00	26.16	C
ATOM	293	CB	VAL	A	56	29.642	12.231	47.043	1.00	26.47	C
ATOM	294	CG1	VAL	A	56	28.888	12.614	48.320	1.00	26.82	C
ATOM	295	CG2	VAL	A	56	30.112	10.785	47.140	1.00	26.75	C
ATOM	296	C	VAL	A	56	27.930	13.704	45.950	1.00	26.34	C
ATOM	297	O	VAL	A	56	26.779	13.683	46.395	1.00	26.27	O
ATOM	298	N	ALA	A	57	28.528	14.831	45.576	1.00	25.69	N
ATOM	299	CA	ALA	A	57	27.846	16.106	45.723	1.00	25.62	C
ATOM	300	CB	ALA	A	57	28.721	17.072	46.509	1.00	25.61	C
ATOM	301	C	ALA	A	57	27.399	16.740	44.405	1.00	25.80	C
ATOM	302	O	ALA	A	57	26.813	17.820	44.406	1.00	25.99	O
ATOM	303	N	PHE	A	58	27.675	16.079	43.284	1.00	25.66	N
ATOM	304	CA	PHE	A	58	27.242	16.595	41.984	1.00	25.94	C

Figure 9G

ATOM	305	CB	PHE A 58	27.689	15.659	40.856	1.00	25.77	C
ATOM	306	CG	PHE A 58	27.101	16.006	39.517	1.00	26.33	C
ATOM	307	CD1	PHE A 58	27.725	16.933	38.684	1.00	26.01	C
ATOM	308	CD2	PHE A 58	25.892	15.445	39.112	1.00	26.14	C
ATOM	309	CE1	PHE A 58	27.152	17.300	37.467	1.00	26.79	C
ATOM	310	CE2	PHE A 58	25.308	15.807	37.893	1.00	27.07	C
ATOM	311	CZ	PHE A 58	25.938	16.735	37.071	1.00	27.22	C
ATOM	312	C	PHE A 58	25.714	16.601	42.045	1.00	26.23	C
ATOM	313	O	PHE A 58	25.123	15.651	42.555	1.00	26.27	O
ATOM	314	N	PRO A 59	25.053	17.645	41.507	1.00	26.87	N
ATOM	315	CD	PRO A 59	23.589	17.565	41.316	1.00	27.24	C
ATOM	316	CA	PRO A 59	25.591	18.836	40.838	1.00	27.09	C
ATOM	317	CB	PRO A 59	24.484	19.195	39.850	1.00	27.32	C
ATOM	318	CG	PRO A 59	23.257	18.898	40.647	1.00	27.45	C
ATOM	319	C	PRO A 59	25.902	19.993	41.788	1.00	27.44	C
ATOM	320	O	PRO A 59	25.197	20.214	42.776	1.00	26.87	O
ATOM	321	N	TYR A 60	26.968	20.725	41.476	1.00	28.08	N
ATOM	322	CA	TYR A 60	27.395	21.870	42.277	1.00	29.46	C
ATOM	323	CB	TYR A 60	28.873	22.182	41.988	1.00	28.52	C
ATOM	324	CG	TYR A 60	29.887	21.318	42.725	1.00	27.75	C
ATOM	325	CD1	TYR A 60	29.520	20.113	43.339	1.00	27.37	C
ATOM	326	CE1	TYR A 60	30.475	19.317	44.006	1.00	26.91	C
ATOM	327	CD2	TYR A 60	31.228	21.708	42.794	1.00	27.09	C
ATOM	328	CE2	TYR A 60	32.178	20.932	43.450	1.00	27.19	C
ATOM	329	CZ	TYR A 60	31.802	19.739	44.054	1.00	27.07	C
ATOM	330	OH	TYR A 60	32.758	18.982	44.698	1.00	25.80	O
ATOM	331	C	TYR A 60	26.539	23.119	41.991	1.00	30.92	C
ATOM	332	O	TYR A 60	26.389	23.993	42.849	1.00	30.67	O
ATOM	333	N	GLY A 61	25.981	23.190	40.785	1.00	33.00	N
ATOM	334	CA	GLY A 61	25.165	24.332	40.400	1.00	35.24	C
ATOM	335	C	GLY A 61	24.126	24.770	41.418	1.00	37.04	C
ATOM	336	O	GLY A 61	23.892	25.965	41.601	1.00	37.85	O
ATOM	337	N	GLU A 62	23.512	23.803	42.089	1.00	38.35	N
ATOM	338	CA	GLU A 62	22.479	24.069	43.088	1.00	39.52	C
ATOM	339	CB	GLU A 62	21.559	22.852	43.183	1.00	41.20	C
ATOM	340	CG	GLU A 62	22.340	21.562	43.450	1.00	43.11	C
ATOM	341	CD	GLU A 62	21.455	20.385	43.790	1.00	44.30	C
ATOM	342	OE1	GLU A 62	20.626	19.994	42.931	1.00	45.50	O
ATOM	343	OE2	GLU A 62	21.590	19.850	44.917	1.00	44.82	O
ATOM	344	C	GLU A 62	23.026	24.374	44.487	1.00	39.48	C
ATOM	345	O	GLU A 62	22.459	25.187	45.226	1.00	40.03	O
ATOM	346	N	LYS A 63	24.123	23.708	44.833	1.00	38.32	N
ATOM	347	CA	LYS A 63	24.772	23.827	46.135	1.00	37.54	C
ATOM	348	CB	LYS A 63	26.033	22.956	46.148	1.00	36.71	C
ATOM	349	CG	LYS A 63	25.795	21.494	45.761	1.00	36.22	C
ATOM	350	CD	LYS A 63	24.954	20.758	46.796	1.00	35.50	C
ATOM	351	CE	LYS A 63	24.888	19.257	46.509	1.00	34.57	C
ATOM	352	NZ	LYS A 63	24.287	18.933	45.180	1.00	33.47	N
ATOM	353	C	LYS A 63	25.130	25.233	46.623	1.00	37.13	C
ATOM	354	O	LYS A 63	25.354	26.153	45.833	1.00	37.17	O
ATOM	355	N	SER A 64	25.180	25.376	47.944	1.00	36.87	N
ATOM	356	CA	SER A 64	25.531	26.637	48.590	1.00	36.73	C
ATOM	357	CB	SER A 64	25.270	26.553	50.096	1.00	36.69	C
ATOM	358	OG	SER A 64	23.936	26.162	50.370	1.00	37.39	O
ATOM	359	C	SER A 64	27.017	26.869	48.360	1.00	36.81	C
ATOM	360	O	SER A 64	27.801	25.915	48.358	1.00	36.64	O
ATOM	361	N	GLU A 65	27.410	28.125	48.177	1.00	36.66	N
ATOM	362	CA	GLU A 65	28.813	28.439	47.947	1.00	36.97	C

Figure 9H

ATOM	363	CB	GLU A 65	28.985	29.926	47.611	1.00	38.23	C
ATOM	364	CG	GLU A 65	28.742	30.243	46.138	1.00	40.25	C
ATOM	365	CD	GLU A 65	28.841	31.730	45.815	1.00	42.02	C
ATOM	366	OE1	GLU A 65	29.763	32.403	46.336	1.00	43.02	O
ATOM	367	OE2	GLU A 65	28.006	32.223	45.023	1.00	43.06	O
ATOM	368	C	GLU A 65	29.702	28.050	49.122	1.00	36.16	C
ATOM	369	O	GLU A 65	30.831	27.606	48.917	1.00	36.24	O
ATOM	370	N	ALA A 66	29.198	28.202	50.345	1.00	35.06	N
ATOM	371	CA	ALA A 66	29.972	27.845	51.536	1.00	34.39	C
ATOM	372	CB	ALA A 66	29.191	28.190	52.794	1.00	34.26	C
ATOM	373	C	ALA A 66	30.317	26.348	51.522	1.00	33.80	C
ATOM	374	O	ALA A 66	31.420	25.943	51.903	1.00	33.49	O
ATOM	375	N	PHE A 67	29.367	25.528	51.087	1.00	32.84	N
ATOM	376	CA	PHE A 67	29.598	24.091	51.009	1.00	31.99	C
ATOM	377	CB	PHE A 67	28.308	23.339	50.657	1.00	31.83	C
ATOM	378	CG	PHE A 67	28.550	21.930	50.191	1.00	31.22	C
ATOM	379	CD1	PHE A 67	28.891	20.928	51.098	1.00	31.15	C
ATOM	380	CD2	PHE A 67	28.526	21.625	48.834	1.00	31.38	C
ATOM	381	CE1	PHE A 67	29.211	19.639	50.657	1.00	30.97	C
ATOM	382	CE2	PHE A 67	28.846	20.337	48.384	1.00	31.33	C
ATOM	383	CZ	PHE A 67	29.189	19.346	49.301	1.00	30.62	C
ATOM	384	C	PHE A 67	30.643	23.796	49.936	1.00	31.40	C
ATOM	385	O	PHE A 67	31.613	23.082	50.186	1.00	31.16	O
ATOM	386	N	ILE A 68	30.433	24.350	48.744	1.00	30.67	N
ATOM	387	CA	ILE A 68	31.338	24.139	47.618	1.00	30.11	C
ATOM	388	CB	ILE A 68	30.926	25.003	46.394	1.00	29.93	C
ATOM	389	CG2	ILE A 68	31.983	24.902	45.294	1.00	29.25	C
ATOM	390	CG1	ILE A 68	29.568	24.533	45.858	1.00	30.20	C
ATOM	391	CD1	ILE A 68	29.116	25.245	44.591	1.00	30.32	C
ATOM	392	C	ILE A 68	32.809	24.414	47.944	1.00	30.38	C
ATOM	393	O	ILE A 68	33.679	23.591	47.649	1.00	29.53	O
ATOM	394	N	VAL A 69	33.092	25.567	48.545	1.00	30.39	N
ATOM	395	CA	VAL A 69	34.470	25.907	48.886	1.00	30.68	C
ATOM	396	CB	VAL A 69	34.557	27.290	49.579	1.00	31.33	C
ATOM	397	CG1	VAL A 69	35.998	27.578	49.994	1.00	31.13	C
ATOM	398	CG2	VAL A 69	34.052	28.376	48.631	1.00	31.78	C
ATOM	399	C	VAL A 69	35.085	24.851	49.801	1.00	30.46	C
ATOM	400	O	VAL A 69	36.175	24.349	49.523	1.00	30.83	O
ATOM	401	N	GLU A 70	34.379	24.508	50.878	1.00	29.88	N
ATOM	402	CA	GLU A 70	34.869	23.518	51.834	1.00	30.07	C
ATOM	403	CB	GLU A 70	33.899	23.369	53.016	1.00	31.73	C
ATOM	404	CG	GLU A 70	33.763	24.597	53.925	1.00	35.37	C
ATOM	405	CD	GLU A 70	35.085	25.046	54.534	1.00	37.49	C
ATOM	406	OE1	GLU A 70	35.894	24.179	54.938	1.00	39.42	O
ATOM	407	OE2	GLU A 70	35.314	26.273	54.619	1.00	39.33	O
ATOM	408	C	GLU A 70	35.064	22.148	51.191	1.00	28.57	C
ATOM	409	O	GLU A 70	36.051	21.452	51.458	1.00	28.03	O
ATOM	410	N	ARG A 71	34.109	21.768	50.354	1.00	26.83	N
ATOM	411	CA	ARG A 71	34.140	20.478	49.677	1.00	25.52	C
ATOM	412	CB	ARG A 71	32.827	20.259	48.919	1.00	25.00	C
ATOM	413	CG	ARG A 71	32.717	18.924	48.195	1.00	24.55	C
ATOM	414	CD	ARG A 71	32.741	17.739	49.156	1.00	24.30	C
ATOM	415	NE	ARG A 71	32.481	16.490	48.437	1.00	24.43	N
ATOM	416	CZ	ARG A 71	32.569	15.278	48.973	1.00	24.76	C
ATOM	417	NH1	ARG A 71	32.915	15.130	50.248	1.00	24.34	N
ATOM	418	NH2	ARG A 71	32.321	14.210	48.227	1.00	24.54	N
ATOM	419	C	ARG A 71	35.320	20.345	48.722	1.00	24.66	C
ATOM	420	O	ARG A 71	36.044	19.352	48.769	1.00	24.09	O

Figure 9I

ATOM	421	N	VAL A 72	35.521	21.342	47.863	1.00	23.70	N
ATOM	422	CA	VAL A 72	36.622	21.279	46.909	1.00	23.69	C
ATOM	423	CB	VAL A 72	36.537	22.428	45.883	1.00	23.55	C
ATOM	424	CG1	VAL A 72	37.697	22.337	44.904	1.00	23.48	C
ATOM	425	CG2	VAL A 72	35.206	22.337	45.125	1.00	24.07	C
ATOM	426	C	VAL A 72	37.976	21.301	47.623	1.00	23.44	C
ATOM	427	O	VAL A 72	38.907	20.607	47.216	1.00	23.28	O
ATOM	428	N	VAL A 73	38.085	22.088	48.686	1.00	23.43	N
ATOM	429	CA	VAL A 73	39.326	22.139	49.451	1.00	23.42	C
ATOM	430	CB	VAL A 73	39.264	23.209	50.571	1.00	24.16	C
ATOM	431	CG1	VAL A 73	40.438	23.033	51.540	1.00	24.47	C
ATOM	432	CG2	VAL A 73	39.316	24.604	49.964	1.00	24.03	C
ATOM	433	C	VAL A 73	39.578	20.755	50.076	1.00	23.35	C
ATOM	434	O	VAL A 73	40.707	20.277	50.094	1.00	23.23	O
ATOM	435	N	ALA A 74	38.527	20.108	50.575	1.00	22.61	N
ATOM	436	CA	ALA A 74	38.679	18.782	51.179	1.00	22.36	C
ATOM	437	CB	ALA A 74	37.382	18.355	51.870	1.00	22.18	C
ATOM	438	C	ALA A 74	39.085	17.736	50.132	1.00	22.47	C
ATOM	439	O	ALA A 74	39.916	16.867	50.400	1.00	21.70	O
ATOM	440	N	ILE A 75	38.499	17.806	48.940	1.00	22.12	N
ATOM	441	CA	ILE A 75	38.857	16.845	47.911	1.00	22.33	C
ATOM	442	CB	ILE A 75	37.898	16.942	46.695	1.00	22.09	C
ATOM	443	CG2	ILE A 75	38.439	16.106	45.531	1.00	21.64	C
ATOM	444	CG1	ILE A 75	36.502	16.455	47.107	1.00	22.35	C
ATOM	445	CD1	ILE A 75	35.414	16.664	46.055	1.00	21.88	C
ATOM	446	C	ILE A 75	40.319	17.017	47.460	1.00	22.41	C
ATOM	447	O	ILE A 75	41.038	16.033	47.306	1.00	22.76	O
ATOM	448	N	VAL A 76	40.770	18.253	47.259	1.00	22.98	N
ATOM	449	CA	VAL A 76	42.157	18.464	46.831	1.00	22.84	C
ATOM	450	CB	VAL A 76	42.436	19.945	46.478	1.00	23.18	C
ATOM	451	CG1	VAL A 76	43.922	20.122	46.125	1.00	23.17	C
ATOM	452	CG2	VAL A 76	41.557	20.376	45.294	1.00	22.52	C
ATOM	453	C	VAL A 76	43.106	18.030	47.951	1.00	23.01	C
ATOM	454	O	VAL A 76	44.206	17.542	47.706	1.00	22.66	O
ATOM	455	N	THR A 77	42.672	18.207	49.190	1.00	23.25	N
ATOM	456	CA	THR A 77	43.482	17.802	50.329	1.00	23.42	C
ATOM	457	CB	THR A 77	42.804	18.220	51.640	1.00	23.36	C
ATOM	458	OG1	THR A 77	42.715	19.650	51.672	1.00	23.52	O
ATOM	459	CG2	THR A 77	43.604	17.737	52.851	1.00	23.84	C
ATOM	460	C	THR A 77	43.673	16.285	50.305	1.00	23.65	C
ATOM	461	O	THR A 77	44.781	15.784	50.526	1.00	23.58	O
ATOM	462	N	ALA A 78	42.592	15.562	50.024	1.00	23.68	N
ATOM	463	CA	ALA A 78	42.635	14.104	49.973	1.00	24.18	C
ATOM	464	CB	ALA A 78	41.222	13.534	49.835	1.00	24.04	C
ATOM	465	C	ALA A 78	43.505	13.632	48.817	1.00	24.10	C
ATOM	466	O	ALA A 78	44.275	12.683	48.960	1.00	23.96	O
ATOM	467	N	VAL A 79	43.389	14.288	47.667	1.00	23.77	N
ATOM	468	CA	VAL A 79	44.206	13.892	46.533	1.00	24.22	C
ATOM	469	CB	VAL A 79	43.880	14.714	45.264	1.00	23.88	C
ATOM	470	CG1	VAL A 79	44.830	14.320	44.145	1.00	23.31	C
ATOM	471	CG2	VAL A 79	42.434	14.466	44.834	1.00	23.95	C
ATOM	472	C	VAL A 79	45.683	14.086	46.874	1.00	24.69	C
ATOM	473	O	VAL A 79	46.505	13.204	46.612	1.00	24.55	O
ATOM	474	N	GLN A 80	46.005	15.234	47.465	1.00	25.87	N
ATOM	475	CA	GLN A 80	47.381	15.560	47.847	1.00	27.88	C
ATOM	476	CB	GLN A 80	47.449	16.934	48.524	1.00	28.24	C
ATOM	477	CG	GLN A 80	48.853	17.292	49.006	1.00	29.92	C
ATOM	478	CD	GLN A 80	48.950	18.668	49.616	1.00	30.55	C

Figure 9J

ATOM	479	OE1	GLN	A	80	48.356	18.943	50.662	1.00	32.95	O
ATOM	480	NE2	GLN	A	80	49.703	19.546	48.971	1.00	31.00	N
ATOM	481	C	GLN	A	80	47.991	14.521	48.781	1.00	29.34	C
ATOM	482	O	GLN	A	80	49.211	14.361	48.833	1.00	28.95	O
ATOM	483	N	GLU	A	81	47.143	13.824	49.527	1.00	30.79	N
ATOM	484	CA	GLU	A	81	47.617	12.799	50.445	1.00	32.53	C
ATOM	485	CB	GLU	A	81	46.525	12.443	51.453	1.00	34.55	C
ATOM	486	CG	GLU	A	81	46.442	13.408	52.606	1.00	37.85	C
ATOM	487	CD	GLU	A	81	47.735	13.457	53.399	1.00	39.61	C
ATOM	488	OE1	GLU	A	81	48.230	12.381	53.806	1.00	41.29	O
ATOM	489	OE2	GLU	A	81	48.258	14.569	53.618	1.00	41.33	O
ATOM	490	C	GLU	A	81	48.035	11.559	49.675	1.00	32.42	C
ATOM	491	O	GLU	A	81	48.974	10.865	50.066	1.00	32.74	O
ATOM	492	N	ARG	A	82	47.337	11.285	48.578	1.00	31.81	N
ATOM	493	CA	ARG	A	82	47.653	10.135	47.743	1.00	31.83	C
ATOM	494	CB	ARG	A	82	46.456	9.777	46.852	1.00	32.76	C
ATOM	495	CG	ARG	A	82	45.289	9.128	47.600	1.00	34.95	C
ATOM	496	CD	ARG	A	82	45.701	7.773	48.180	1.00	36.27	C
ATOM	497	NE	ARG	A	82	45.997	6.810	47.120	1.00	38.20	N
ATOM	498	CZ	ARG	A	82	45.085	6.042	46.528	1.00	38.36	C
ATOM	499	NH1	ARG	A	82	43.815	6.116	46.899	1.00	38.95	N
ATOM	500	NH2	ARG	A	82	45.441	5.212	45.554	1.00	38.87	N
ATOM	501	C	ARG	A	82	48.879	10.431	46.877	1.00	31.32	C
ATOM	502	O	ARG	A	82	49.741	9.568	46.690	1.00	31.21	O
ATOM	503	N	TYR	A	83	48.953	11.650	46.351	1.00	30.58	N
ATOM	504	CA	TYR	A	83	50.079	12.057	45.510	1.00	30.30	C
ATOM	505	CB	TYR	A	83	49.798	11.802	44.021	1.00	30.71	C
ATOM	506	CG	TYR	A	83	49.710	10.362	43.580	1.00	31.39	C
ATOM	507	CD1	TYR	A	83	48.481	9.717	43.484	1.00	31.23	C
ATOM	508	CE1	TYR	A	83	48.394	8.404	43.034	1.00	32.06	C
ATOM	509	CD2	TYR	A	83	50.857	9.655	43.218	1.00	31.62	C
ATOM	510	CE2	TYR	A	83	50.780	8.342	42.767	1.00	32.08	C
ATOM	511	CZ	TYR	A	83	49.550	7.724	42.677	1.00	32.19	C
ATOM	512	OH	TYR	A	83	49.471	6.423	42.229	1.00	32.58	O
ATOM	513	C	TYR	A	83	50.408	13.538	45.629	1.00	29.65	C
ATOM	514	O	TYR	A	83	49.520	14.385	45.519	1.00	29.22	O
ATOM	515	N	PRO	A	84	51.685	13.872	45.875	1.00	29.11	N
ATOM	516	CD	PRO	A	84	52.799	13.019	46.335	1.00	29.50	C
ATOM	517	CA	PRO	A	84	52.034	15.291	45.966	1.00	28.54	C
ATOM	518	CB	PRO	A	84	53.539	15.257	46.206	1.00	29.05	C
ATOM	519	CG	PRO	A	84	53.700	14.012	47.048	1.00	29.74	C
ATOM	520	C	PRO	A	84	51.681	15.839	44.579	1.00	27.78	C
ATOM	521	O	PRO	A	84	51.882	15.156	43.576	1.00	27.15	O
ATOM	522	N	LEU	A	85	51.151	17.053	44.518	1.00	27.35	N
ATOM	523	CA	LEU	A	85	50.741	17.626	43.239	1.00	26.90	C
ATOM	524	CB	LEU	A	85	49.323	18.192	43.361	1.00	26.62	C
ATOM	525	CG	LEU	A	85	48.230	17.259	43.889	1.00	26.34	C
ATOM	526	CD1	LEU	A	85	46.923	18.030	44.073	1.00	26.18	C
ATOM	527	CD2	LEU	A	85	48.049	16.102	42.926	1.00	26.09	C
ATOM	528	C	LEU	A	85	51.661	18.725	42.731	1.00	26.93	C
ATOM	529	O	LEU	A	85	52.148	19.540	43.501	1.00	26.47	O
ATOM	530	N	ALA	A	86	51.908	18.731	41.428	1.00	27.16	N
ATOM	531	CA	ALA	A	86	52.727	19.772	40.828	1.00	27.51	C
ATOM	532	CB	ALA	A	86	53.411	19.244	39.560	1.00	27.79	C
ATOM	533	C	ALA	A	86	51.775	20.922	40.484	1.00	27.57	C
ATOM	534	O	ALA	A	86	52.149	22.091	40.512	1.00	28.41	O
ATOM	535	N	LEU	A	87	50.524	20.581	40.189	1.00	27.71	N
ATOM	536	CA	LEU	A	87	49.530	21.582	39.824	1.00	27.37	C

Figure 9K

ATOM	537	CB	LEU	A	87	49.866	22.133	38.430	1.00	28.02	C
ATOM	538	CG	LEU	A	87	48.916	23.067	37.676	1.00	27.98	C
ATOM	539	CD1	LEU	A	87	49.721	23.825	36.624	1.00	28.10	C
ATOM	540	CD2	LEU	A	87	47.788	22.274	37.013	1.00	28.31	C
ATOM	541	C	LEU	A	87	48.134	20.972	39.817	1.00	27.07	C
ATOM	542	O	LEU	A	87	47.973	19.779	39.558	1.00	27.09	O
ATOM	543	N	ALA	A	88	47.132	21.797	40.101	1.00	26.70	N
ATOM	544	CA	ALA	A	88	45.745	21.353	40.106	1.00	26.24	C
ATOM	545	CB	ALA	A	88	45.218	21.285	41.528	1.00	26.54	C
ATOM	546	C	ALA	A	88	44.876	22.299	39.282	1.00	26.33	C
ATOM	547	O	ALA	A	88	45.040	23.522	39.326	1.00	25.93	O
ATOM	548	N	VAL	A	89	43.949	21.719	38.532	1.00	26.38	N
ATOM	549	CA	VAL	A	89	43.035	22.493	37.704	1.00	26.48	C
ATOM	550	CB	VAL	A	89	43.100	22.057	36.225	1.00	26.98	C
ATOM	551	CG1	VAL	A	89	42.184	22.945	35.388	1.00	26.51	C
ATOM	552	CG2	VAL	A	89	44.535	22.111	35.719	1.00	26.37	C
ATOM	553	C	VAL	A	89	41.605	22.285	38.174	1.00	26.45	C
ATOM	554	O	VAL	A	89	41.128	21.153	38.248	1.00	26.61	O
ATOM	555	N	VAL	A	90	40.930	23.375	38.513	1.00	26.03	N
ATOM	556	CA	VAL	A	90	39.543	23.300	38.928	1.00	26.42	C
ATOM	557	CB	VAL	A	90	39.195	24.432	39.916	1.00	26.37	C
ATOM	558	CG1	VAL	A	90	37.744	24.315	40.361	1.00	26.82	C
ATOM	559	CG2	VAL	A	90	40.123	24.355	41.137	1.00	26.76	C
ATOM	560	C	VAL	A	90	38.787	23.490	37.615	1.00	26.74	C
ATOM	561	O	VAL	A	90	38.371	24.601	37.288	1.00	26.48	O
ATOM	562	N	ALA	A	91	38.657	22.405	36.853	1.00	26.82	N
ATOM	563	CA	ALA	A	91	37.986	22.438	35.549	1.00	27.63	C
ATOM	564	CB	ALA	A	91	38.468	21.276	34.694	1.00	27.04	C
ATOM	565	C	ALA	A	91	36.488	22.356	35.758	1.00	28.11	C
ATOM	566	O	ALA	A	91	35.820	21.459	35.242	1.00	27.96	O
ATOM	567	N	CYS	A	92	35.979	23.327	36.509	1.00	29.18	N
ATOM	568	CA	CYS	A	92	34.579	23.399	36.882	1.00	30.48	C
ATOM	569	CB	CYS	A	92	34.402	22.573	38.163	1.00	30.27	C
ATOM	570	SG	CYS	A	92	32.819	22.659	38.984	1.00	30.88	S
ATOM	571	C	CYS	A	92	34.219	24.867	37.137	1.00	31.39	C
ATOM	572	O	CYS	A	92	34.730	25.473	38.075	1.00	31.00	O
ATOM	573	N	ASN	A	93	33.341	25.436	36.310	1.00	32.97	N
ATOM	574	CA	ASN	A	93	32.937	26.837	36.470	1.00	34.50	C
ATOM	575	CB	ASN	A	93	32.043	27.283	35.306	1.00	35.30	C
ATOM	576	CG	ASN	A	93	32.770	27.298	33.982	1.00	36.40	C
ATOM	577	OD1	ASN	A	93	32.983	26.251	33.360	1.00	37.59	O
ATOM	578	ND2	ASN	A	93	33.165	28.489	33.539	1.00	36.95	N
ATOM	579	C	ASN	A	93	32.218	27.128	37.784	1.00	35.02	C
ATOM	580	O	ASN	A	93	32.473	28.151	38.426	1.00	35.62	O
ATOM	581	N	THR	A	94	31.317	26.236	38.183	1.00	35.16	N
ATOM	582	CA	THR	A	94	30.567	26.418	39.420	1.00	36.16	C
ATOM	583	CB	THR	A	94	29.417	25.389	39.539	1.00	36.42	C
ATOM	584	OG1	THR	A	94	29.934	24.063	39.353	1.00	36.99	O
ATOM	585	CG2	THR	A	94	28.354	25.662	38.493	1.00	36.28	C
ATOM	586	C	THR	A	94	31.436	26.311	40.668	1.00	36.39	C
ATOM	587	O	THR	A	94	30.972	26.572	41.774	1.00	37.04	O
ATOM	588	N	ALA	A	95	32.695	25.928	40.501	1.00	36.62	N
ATOM	589	CA	ALA	A	95	33.587	25.803	41.654	1.00	37.07	C
ATOM	590	CB	ALA	A	95	34.093	24.363	41.780	1.00	36.87	C
ATOM	591	C	ALA	A	95	34.769	26.757	41.599	1.00	37.26	C
ATOM	592	O	ALA	A	95	35.183	27.291	42.626	1.00	37.43	O
ATOM	593	N	SER	A	96	35.304	26.978	40.405	1.00	37.85	N
ATOM	594	CA	SER	A	96	36.464	27.844	40.245	1.00	38.98	C

Figure 9L

ATOM	595	CB	SER A 96	36.701	28.167	38.772	1.00	38.43	C
ATOM	596	OG	SER A 96	37.534	27.193	38.172	1.00	39.50	O
ATOM	597	C	SER A 96	36.403	29.140	41.031	1.00	39.55	C
ATOM	598	O	SER A 96	37.056	29.276	42.064	1.00	40.03	O
ATOM	599	N	THR A 97	35.621	30.090	40.540	1.00	40.03	N
ATOM	600	CA	THR A 97	35.507	31.386	41.193	1.00	40.80	C
ATOM	601	CB	THR A 97	34.206	32.086	40.782	1.00	41.54	C
ATOM	602	OG1	THR A 97	33.079	31.351	41.283	1.00	43.65	O
ATOM	603	CG2	THR A 97	34.116	32.152	39.266	1.00	42.47	C
ATOM	604	C	THR A 97	35.580	31.334	42.718	1.00	40.13	C
ATOM	605	O	THR A 97	36.587	31.730	43.322	1.00	40.25	O
ATOM	606	N	VAL A 98	34.524	30.819	43.333	1.00	38.98	N
ATOM	607	CA	VAL A 98	34.440	30.749	44.783	1.00	37.63	C
ATOM	608	CB	VAL A 98	33.074	30.183	45.210	1.00	38.05	C
ATOM	609	CG1	VAL A 98	31.951	31.032	44.616	1.00	37.94	C
ATOM	610	CG2	VAL A 98	32.949	28.735	44.752	1.00	37.58	C
ATOM	611	C	VAL A 98	35.521	29.956	45.520	1.00	36.84	C
ATOM	612	O	VAL A 98	35.789	30.230	46.689	1.00	36.41	O
ATOM	613	N	SER A 99	36.145	28.989	44.848	1.00	35.65	N
ATOM	614	CA	SER A 99	37.149	28.136	45.491	1.00	34.62	C
ATOM	615	CB	SER A 99	36.982	26.688	45.001	1.00	34.67	C
ATOM	616	OG	SER A 99	35.697	26.177	45.311	1.00	35.45	O
ATOM	617	C	SER A 99	38.626	28.504	45.353	1.00	33.65	C
ATOM	618	O	SER A 99	39.443	28.075	46.165	1.00	33.61	O
ATOM	619	N	LEU A 100	38.974	29.278	44.335	1.00	32.41	N
ATOM	620	CA	LEU A 100	40.371	29.635	44.103	1.00	31.86	C
ATOM	621	CB	LEU A 100	40.476	30.501	42.844	1.00	31.39	C
ATOM	622	CG	LEU A 100	40.052	29.816	41.538	1.00	31.77	C
ATOM	623	CD1	LEU A 100	40.345	30.741	40.359	1.00	31.20	C
ATOM	624	CD2	LEU A 100	40.813	28.498	41.363	1.00	31.65	C
ATOM	625	C	LEU A 100	41.131	30.286	45.272	1.00	31.53	C
ATOM	626	O	LEU A 100	42.227	29.851	45.620	1.00	31.21	O
ATOM	627	N	PRO A 101	40.570	31.336	45.887	1.00	31.41	N
ATOM	628	CD	PRO A 101	39.378	32.122	45.526	1.00	31.74	C
ATOM	629	CA	PRO A 101	41.289	31.958	47.006	1.00	31.39	C
ATOM	630	CB	PRO A 101	40.312	33.027	47.488	1.00	31.54	C
ATOM	631	CG	PRO A 101	39.657	33.455	46.202	1.00	31.94	C
ATOM	632	C	PRO A 101	41.642	30.960	48.111	1.00	31.01	C
ATOM	633	O	PRO A 101	42.784	30.908	48.574	1.00	30.97	O
ATOM	634	N	ALA A 102	40.657	30.168	48.522	1.00	30.66	N
ATOM	635	CA	ALA A 102	40.845	29.180	49.579	1.00	30.28	C
ATOM	636	CB	ALA A 102	39.507	28.531	49.927	1.00	30.65	C
ATOM	637	C	ALA A 102	41.867	28.110	49.210	1.00	29.99	C
ATOM	638	O	ALA A 102	42.675	27.692	50.049	1.00	29.77	O
ATOM	639	N	LEU A 103	41.833	27.668	47.957	1.00	29.36	N
ATOM	640	CA	LEU A 103	42.764	26.650	47.483	1.00	28.42	C
ATOM	641	CB	LEU A 103	42.322	26.126	46.119	1.00	27.97	C
ATOM	642	CG	LEU A 103	41.031	25.302	46.119	1.00	27.49	C
ATOM	643	CD1	LEU A 103	40.535	25.118	44.684	1.00	26.76	C
ATOM	644	CD2	LEU A 103	41.286	23.957	46.790	1.00	26.64	C
ATOM	645	C	LEU A 103	44.184	27.189	47.378	1.00	28.66	C
ATOM	646	O	LEU A 103	45.145	26.503	47.722	1.00	27.90	O
ATOM	647	N	ARG A 104	44.315	28.424	46.911	1.00	28.64	N
ATOM	648	CA	ARG A 104	45.630	29.021	46.761	1.00	29.38	C
ATOM	649	CB	ARG A 104	45.540	30.265	45.875	1.00	29.44	C
ATOM	650	CG	ARG A 104	45.362	29.904	44.407	1.00	30.55	C
ATOM	651	CD	ARG A 104	44.967	31.091	43.526	1.00	31.09	C
ATOM	652	NE	ARG A 104	44.866	30.655	42.134	1.00	31.83	N

Figure 9M

ATOM	653	CZ ARG A 104	44.212	31.307	41.175	1.00	31.39	C
ATOM	654	NH1 ARG A 104	43.585	32.442	41.439	1.00	31.47	N
ATOM	655	NH2 ARG A 104	44.180	30.810	39.950	1.00	30.99	N
ATOM	656	C ARG A 104	46.261	29.346	48.104	1.00	29.24	C
ATOM	657	O ARG A 104	47.477	29.439	48.213	1.00	28.87	O
ATOM	658	N GLU A 105	45.430	29.507	49.126	1.00	29.80	N
ATOM	659	CA GLU A 105	45.928	29.791	50.465	1.00	31.03	C
ATOM	660	CB GLU A 105	44.831	30.424	51.328	1.00	32.41	C
ATOM	661	CG GLU A 105	45.138	30.405	52.827	1.00	34.95	C
ATOM	662	CD GLU A 105	46.373	31.213	53.190	1.00	36.39	C
ATOM	663	OE1 GLU A 105	46.929	30.992	54.294	1.00	37.63	O
ATOM	664	OE2 GLU A 105	46.785	32.072	52.379	1.00	37.49	O
ATOM	665	C GLU A 105	46.408	28.503	51.129	1.00	30.44	C
ATOM	666	O GLU A 105	47.463	28.476	51.761	1.00	31.06	O
ATOM	667	N LYS A 106	45.648	27.428	50.972	1.00	29.73	N
ATOM	668	CA LYS A 106	46.023	26.175	51.605	1.00	29.26	C
ATOM	669	CB LYS A 106	44.806	25.245	51.723	1.00	29.20	C
ATOM	670	CG LYS A 106	45.091	24.005	52.595	1.00	29.25	C
ATOM	671	CD LYS A 106	43.840	23.174	52.882	1.00	28.92	C
ATOM	672	CE LYS A 106	44.150	22.010	53.840	1.00	28.67	C
ATOM	673	NZ LYS A 106	42.965	21.124	54.082	1.00	28.66	N
ATOM	674	C LYS A 106	47.168	25.410	50.943	1.00	29.05	C
ATOM	675	O LYS A 106	47.993	24.806	51.635	1.00	28.51	O
ATOM	676	N PHE A 107	47.240	25.445	49.617	1.00	28.37	N
ATOM	677	CA PHE A 107	48.270	24.690	48.925	1.00	28.51	C
ATOM	678	CB PHE A 107	47.627	23.857	47.815	1.00	28.11	C
ATOM	679	CG PHE A 107	46.516	22.973	48.308	1.00	27.86	C
ATOM	680	CD1 PHE A 107	45.185	23.346	48.147	1.00	27.53	C
ATOM	681	CD2 PHE A 107	46.805	21.795	48.991	1.00	27.75	C
ATOM	682	CE1 PHE A 107	44.156	22.560	48.665	1.00	27.08	C
ATOM	683	CE2 PHE A 107	45.781	20.997	49.514	1.00	27.41	C
ATOM	684	CZ PHE A 107	44.457	21.383	49.350	1.00	27.01	C
ATOM	685	C PHE A 107	49.443	25.476	48.376	1.00	28.85	C
ATOM	686	O PHE A 107	49.337	26.669	48.096	1.00	28.61	O
ATOM	687	N ASP A 108	50.566	24.781	48.225	1.00	29.16	N
ATOM	688	CA ASP A 108	51.781	25.394	47.716	1.00	29.72	C
ATOM	689	CB ASP A 108	52.925	25.180	48.700	1.00	29.47	C
ATOM	690	CG ASP A 108	52.721	25.959	49.973	1.00	29.74	C
ATOM	691	OD1 ASP A 108	52.567	27.196	49.880	1.00	29.19	O
ATOM	692	OD2 ASP A 108	52.700	25.344	51.058	1.00	29.72	O
ATOM	693	C ASP A 108	52.163	24.914	46.333	1.00	29.83	C
ATOM	694	O ASP A 108	53.335	24.699	46.018	1.00	30.36	O
ATOM	695	N PHE A 109	51.145	24.724	45.511	1.00	29.48	N
ATOM	696	CA PHE A 109	51.345	24.342	44.128	1.00	29.36	C
ATOM	697	CB PHE A 109	51.079	22.844	43.895	1.00	28.81	C
ATOM	698	CG PHE A 109	49.781	22.348	44.454	1.00	29.18	C
ATOM	699	CD1 PHE A 109	48.568	22.679	43.851	1.00	29.09	C
ATOM	700	CD2 PHE A 109	49.772	21.525	45.579	1.00	28.19	C
ATOM	701	CE1 PHE A 109	47.363	22.194	44.364	1.00	29.20	C
ATOM	702	CE2 PHE A 109	48.580	21.037	46.099	1.00	28.87	C
ATOM	703	CZ PHE A 109	47.368	21.369	45.492	1.00	28.19	C
ATOM	704	C PHE A 109	50.358	25.232	43.397	1.00	28.99	C
ATOM	705	O PHE A 109	49.331	25.626	43.956	1.00	28.79	O
ATOM	706	N PRO A 110	50.673	25.600	42.153	1.00	29.04	N
ATOM	707	CD PRO A 110	51.823	25.213	41.318	1.00	28.89	C
ATOM	708	CA PRO A 110	49.751	26.467	41.419	1.00	29.02	C
ATOM	709	CB PRO A 110	50.515	26.761	40.128	1.00	28.79	C
ATOM	710	CG PRO A 110	51.326	25.525	39.929	1.00	29.59	C

Figure 9N

ATOM	711	C	PRO A 110	48.381	25.839	41.182	1.00	28.61	C
ATOM	712	O	PRO A 110	48.259	24.630	40.990	1.00	28.77	O
ATOM	713	N	VAL A 111	47.352	26.673	41.224	1.00	28.61	N
ATOM	714	CA	VAL A 111	45.989	26.215	41.002	1.00	28.17	C
ATOM	715	CB	VAL A 111	45.101	26.457	42.240	1.00	27.94	C
ATOM	716	CG1	VAL A 111	43.683	25.945	41.978	1.00	26.91	C
ATOM	717	CG2	VAL A 111	45.710	25.759	43.467	1.00	27.23	C
ATOM	718	C	VAL A 111	45.417	26.987	39.822	1.00	28.51	C
ATOM	719	O	VAL A 111	45.482	28.213	39.786	1.00	28.55	O
ATOM	720	N	VAL A 112	44.871	26.263	38.854	1.00	28.78	N
ATOM	721	CA	VAL A 112	44.284	26.892	37.679	1.00	29.08	C
ATOM	722	CB	VAL A 112	44.691	26.145	36.387	1.00	29.31	C
ATOM	723	CG1	VAL A 112	43.996	26.753	35.175	1.00	29.34	C
ATOM	724	CG2	VAL A 112	46.185	26.215	36.213	1.00	28.86	C
ATOM	725	C	VAL A 112	42.772	26.891	37.810	1.00	29.49	C
ATOM	726	O	VAL A 112	42.175	25.895	38.227	1.00	29.47	O
ATOM	727	N	GLY A 113	42.160	28.021	37.475	1.00	29.33	N
ATOM	728	CA	GLY A 113	40.719	28.132	37.551	1.00	29.94	C
ATOM	729	C	GLY A 113	40.136	28.309	36.164	1.00	30.66	C
ATOM	730	O	GLY A 113	40.873	28.407	35.180	1.00	29.81	O
ATOM	731	N	VAL A 114	38.809	28.351	36.088	1.00	31.45	N
ATOM	732	CA	VAL A 114	38.121	28.518	34.811	1.00	32.36	C
ATOM	733	CB	VAL A 114	37.509	27.204	34.315	1.00	32.77	C
ATOM	734	CG1	VAL A 114	38.587	26.138	34.165	1.00	32.86	C
ATOM	735	CG2	VAL A 114	36.425	26.756	35.276	1.00	33.24	C
ATOM	736	C	VAL A 114	36.983	29.521	34.894	1.00	32.64	C
ATOM	737	O	VAL A 114	36.178	29.505	35.833	1.00	33.94	O
ATOM	738	N	VAL A 115	36.932	30.409	33.913	1.00	31.91	N
ATOM	739	CA	VAL A 115	35.869	31.395	33.830	1.00	31.47	C
ATOM	740	CB	VAL A 115	36.368	32.820	34.173	1.00	32.15	C
ATOM	741	CG1	VAL A 115	36.717	32.908	35.652	1.00	33.28	C
ATOM	742	CG2	VAL A 115	37.579	33.169	33.330	1.00	32.44	C
ATOM	743	C	VAL A 115	35.409	31.348	32.375	1.00	30.19	C
ATOM	744	O	VAL A 115	36.202	31.048	31.483	1.00	29.34	O
ATOM	745	N	PRO A 116	34.122	31.615	32.121	1.00	29.68	N
ATOM	746	CD	PRO A 116	33.044	31.894	33.088	1.00	29.83	C
ATOM	747	CA	PRO A 116	33.610	31.590	30.743	1.00	28.99	C
ATOM	748	CB	PRO A 116	32.195	32.141	30.894	1.00	29.53	C
ATOM	749	CG	PRO A 116	31.793	31.619	32.267	1.00	29.52	C
ATOM	750	C	PRO A 116	34.482	32.445	29.826	1.00	28.73	C
ATOM	751	O	PRO A 116	34.865	33.560	30.194	1.00	28.39	O
ATOM	752	N	ALA A 117	34.786	31.921	28.639	1.00	27.82	N
ATOM	753	CA	ALA A 117	35.638	32.607	27.663	1.00	28.21	C
ATOM	754	CB	ALA A 117	36.125	31.607	26.614	1.00	26.94	C
ATOM	755	C	ALA A 117	34.977	33.800	26.974	1.00	28.60	C
ATOM	756	O	ALA A 117	35.023	33.930	25.747	1.00	28.59	O
ATOM	757	N	ILE A 118	34.376	34.676	27.766	1.00	28.96	N
ATOM	758	CA	ILE A 118	33.710	35.848	27.225	1.00	29.91	C
ATOM	759	CB	ILE A 118	32.962	36.606	28.335	1.00	31.06	C
ATOM	760	CG2	ILE A 118	32.449	37.950	27.808	1.00	31.44	C
ATOM	761	CG1	ILE A 118	31.809	35.736	28.844	1.00	31.63	C
ATOM	762	CD1	ILE A 118	31.091	36.303	30.038	1.00	33.47	C
ATOM	763	C	ILE A 118	34.673	36.800	26.537	1.00	30.04	C
ATOM	764	O	ILE A 118	34.367	37.329	25.466	1.00	29.91	O
ATOM	765	N	LYS A 119	35.840	37.008	27.143	1.00	29.81	N
ATOM	766	CA	LYS A 119	36.836	37.915	26.584	1.00	30.04	C
ATOM	767	CB	LYS A 119	38.091	37.933	27.468	1.00	30.22	C
ATOM	768	CG	LYS A 119	39.130	38.955	27.020	1.00	30.96	C

Figure 90

ATOM	769	CD	LYS A 119	40.292	39.050	27.988	1.00	31.45	C
ATOM	770	CE	LYS A 119	41.314	40.048	27.492	1.00	31.36	C
ATOM	771	NZ	LYS A 119	42.566	39.971	28.280	1.00	32.08	N
ATOM	772	C	LYS A 119	37.210	37.606	25.125	1.00	30.26	C
ATOM	773	O	LYS A 119	37.081	38.468	24.260	1.00	30.43	O
ATOM	774	N	PRO A 120	37.687	36.385	24.829	1.00	30.32	N
ATOM	775	CD	PRO A 120	38.119	35.261	25.679	1.00	30.42	C
ATOM	776	CA	PRO A 120	38.024	36.135	23.424	1.00	30.77	C
ATOM	777	CB	PRO A 120	38.743	34.782	23.469	1.00	30.78	C
ATOM	778	CG	PRO A 120	38.175	34.123	24.687	1.00	30.65	C
ATOM	779	C	PRO A 120	36.805	36.124	22.501	1.00	31.13	C
ATOM	780	O	PRO A 120	36.900	36.515	21.339	1.00	31.33	O
ATOM	781	N	ALA A 121	35.662	35.684	23.018	1.00	31.38	N
ATOM	782	CA	ALA A 121	34.447	35.632	22.214	1.00	31.88	C
ATOM	783	CB	ALA A 121	33.317	35.001	23.007	1.00	31.22	C
ATOM	784	C	ALA A 121	34.049	37.030	21.754	1.00	32.64	C
ATOM	785	O	ALA A 121	33.558	37.206	20.637	1.00	32.09	O
ATOM	786	N	ALA A 122	34.268	38.019	22.618	1.00	33.55	N
ATOM	787	CA	ALA A 122	33.931	39.405	22.305	1.00	34.91	C
ATOM	788	CB	ALA A 122	34.108	40.281	23.544	1.00	34.63	C
ATOM	789	C	ALA A 122	34.779	39.944	21.159	1.00	35.90	C
ATOM	790	O	ALA A 122	34.334	40.809	20.408	1.00	36.06	O
ATOM	791	N	ARG A 123	36.000	39.435	21.029	1.00	37.08	N
ATOM	792	CA	ARG A 123	36.901	39.866	19.962	1.00	38.64	C
ATOM	793	CB	ARG A 123	38.363	39.696	20.382	1.00	39.68	C
ATOM	794	CG	ARG A 123	38.775	40.468	21.618	1.00	41.76	C
ATOM	795	CD	ARG A 123	40.279	40.379	21.811	1.00	43.75	C
ATOM	796	NE	ARG A 123	41.000	40.999	20.701	1.00	45.71	N
ATOM	797	CZ	ARG A 123	42.320	40.959	20.547	1.00	46.46	C
ATOM	798	NH1	ARG A 123	43.071	40.321	21.435	1.00	47.45	N
ATOM	799	NH2	ARG A 123	42.891	41.564	19.512	1.00	47.03	N
ATOM	800	C	ARG A 123	36.689	39.068	18.678	1.00	39.10	C
ATOM	801	O	ARG A 123	37.252	39.405	17.636	1.00	39.34	O
ATOM	802	N	LEU A 124	35.886	38.011	18.749	1.00	39.13	N
ATOM	803	CA	LEU A 124	35.653	37.165	17.583	1.00	39.56	C
ATOM	804	CB	LEU A 124	35.776	35.686	17.975	1.00	39.49	C
ATOM	805	CG	LEU A 124	37.133	35.224	18.517	1.00	39.90	C
ATOM	806	CD1	LEU A 124	37.039	33.765	18.952	1.00	40.24	C
ATOM	807	CD2	LEU A 124	38.210	35.398	17.455	1.00	40.03	C
ATOM	808	C	LEU A 124	34.315	37.391	16.895	1.00	39.81	C
ATOM	809	O	LEU A 124	34.197	37.192	15.685	1.00	39.83	O
ATOM	810	N	THR A 125	33.311	37.807	17.659	1.00	39.86	N
ATOM	811	CA	THR A 125	31.991	38.027	17.096	1.00	40.44	C
ATOM	812	CB	THR A 125	30.981	38.482	18.179	1.00	40.32	C
ATOM	813	OG1	THR A 125	29.685	38.636	17.589	1.00	40.44	O
ATOM	814	CG2	THR A 125	31.411	39.803	18.809	1.00	40.44	C
ATOM	815	C	THR A 125	32.023	39.057	15.971	1.00	41.06	C
ATOM	816	O	THR A 125	32.777	40.028	16.022	1.00	40.79	O
ATOM	817	N	ALA A 126	31.206	38.826	14.949	1.00	41.50	N
ATOM	818	CA	ALA A 126	31.133	39.732	13.812	1.00	42.01	C
ATOM	819	CB	ALA A 126	31.214	38.943	12.507	1.00	41.90	C
ATOM	820	C	ALA A 126	29.837	40.532	13.861	1.00	42.35	C
ATOM	821	O	ALA A 126	29.798	41.685	13.427	1.00	42.99	O
ATOM	822	N	ASN A 127	28.778	39.928	14.394	1.00	41.88	N
ATOM	823	CA	ASN A 127	27.493	40.613	14.476	1.00	41.62	C
ATOM	824	CB	ASN A 127	26.350	39.641	14.147	1.00	41.84	C
ATOM	825	CG	ASN A 127	26.027	38.692	15.291	1.00	41.92	C
ATOM	826	OD1	ASN A 127	26.847	38.451	16.175	1.00	41.99	O

Figure 9P

ATOM	827	ND2 ASN A 127	24.822	38.135	15.264	1.00	41.74	N
ATOM	828	C ASN A 127	27.266	41.262	15.834	1.00	41.10	C
ATOM	829	O ASN A 127	26.241	41.902	16.066	1.00	41.43	O
ATOM	830	N GLY A 128	28.234	41.101	16.730	1.00	40.81	N
ATOM	831	CA GLY A 128	28.122	41.688	18.052	1.00	39.82	C
ATOM	832	C GLY A 128	27.185	40.965	19.004	1.00	39.18	C
ATOM	833	O GLY A 128	26.933	41.453	20.103	1.00	39.41	O
ATOM	834	N ILE A 129	26.660	39.812	18.594	1.00	38.60	N
ATOM	835	CA ILE A 129	25.757	39.044	19.451	1.00	37.56	C
ATOM	836	CB ILE A 129	24.523	38.522	18.686	1.00	37.63	C
ATOM	837	CG2 ILE A 129	23.450	38.100	19.686	1.00	37.28	C
ATOM	838	CG1 ILE A 129	23.980	39.593	17.732	1.00	38.02	C
ATOM	839	CD1 ILE A 129	23.250	40.727	18.406	1.00	38.18	C
ATOM	840	C ILE A 129	26.510	37.822	19.983	1.00	36.88	C
ATOM	841	O ILE A 129	26.787	36.882	19.241	1.00	36.65	O
ATOM	842	N VAL A 130	26.834	37.840	21.270	1.00	35.90	N
ATOM	843	CA VAL A 130	27.554	36.733	21.877	1.00	34.41	C
ATOM	844	CB VAL A 130	28.823	37.233	22.594	1.00	34.44	C
ATOM	845	CG1 VAL A 130	29.512	36.079	23.314	1.00	34.63	C
ATOM	846	CG2 VAL A 130	29.768	37.857	21.578	1.00	33.95	C
ATOM	847	C VAL A 130	26.674	35.990	22.870	1.00	33.52	C
ATOM	848	O VAL A 130	26.082	36.589	23.770	1.00	33.77	O
ATOM	849	N GLY A 131	26.583	34.679	22.695	1.00	32.38	N
ATOM	850	CA GLY A 131	25.779	33.877	23.593	1.00	31.20	C
ATOM	851	C GLY A 131	26.626	33.212	24.667	1.00	30.54	C
ATOM	852	O GLY A 131	27.799	32.903	24.453	1.00	29.56	O
ATOM	853	N LEU A 132	26.032	33.009	25.837	1.00	29.94	N
ATOM	854	CA LEU A 132	26.726	32.348	26.930	1.00	29.63	C
ATOM	855	CB LEU A 132	26.970	33.314	28.094	1.00	29.35	C
ATOM	856	CG LEU A 132	27.559	32.707	29.383	1.00	29.67	C
ATOM	857	CD1 LEU A 132	28.930	32.091	29.115	1.00	28.73	C
ATOM	858	CD2 LEU A 132	27.676	33.800	30.444	1.00	29.83	C
ATOM	859	C LEU A 132	25.870	31.189	27.402	1.00	29.56	C
ATOM	860	O LEU A 132	24.764	31.392	27.912	1.00	29.35	O
ATOM	861	N LEU A 133	26.362	29.975	27.190	1.00	29.49	N
ATOM	862	CA LEU A 133	25.658	28.776	27.632	1.00	30.26	C
ATOM	863	CB LEU A 133	25.747	27.655	26.596	1.00	29.82	C
ATOM	864	CG LEU A 133	24.832	27.685	25.382	1.00	29.97	C
ATOM	865	CD1 LEU A 133	25.087	26.431	24.561	1.00	29.36	C
ATOM	866	CD2 LEU A 133	23.370	27.738	25.831	1.00	29.56	C
ATOM	867	C LEU A 133	26.374	28.328	28.891	1.00	30.96	C
ATOM	868	O LEU A 133	27.577	28.064	28.867	1.00	30.93	O
ATOM	869	N ALA A 134	25.641	28.258	29.991	1.00	31.95	N
ATOM	870	CA ALA A 134	26.220	27.838	31.256	1.00	33.61	C
ATOM	871	CB ALA A 134	26.671	29.056	32.057	1.00	33.35	C
ATOM	872	C ALA A 134	25.157	27.080	32.022	1.00	34.73	C
ATOM	873	O ALA A 134	24.021	26.963	31.567	1.00	34.36	O
ATOM	874	N THR A 135	25.515	26.552	33.184	1.00	36.55	N
ATOM	875	CA THR A 135	24.522	25.845	33.960	1.00	38.50	C
ATOM	876	CB THR A 135	25.166	24.865	34.958	1.00	38.44	C
ATOM	877	OG1 THR A 135	24.136	24.057	35.544	1.00	38.63	O
ATOM	878	CG2 THR A 135	25.932	25.610	36.037	1.00	37.99	C
ATOM	879	C THR A 135	23.676	26.890	34.683	1.00	40.21	C
ATOM	880	O THR A 135	24.069	28.056	34.790	1.00	39.88	O
ATOM	881	N ARG A 136	22.514	26.470	35.169	1.00	42.42	N
ATOM	882	CA ARG A 136	21.592	27.374	35.840	1.00	44.95	C
ATOM	883	CB ARG A 136	20.419	26.584	36.429	1.00	44.96	C
ATOM	884	CG ARG A 136	19.310	27.468	36.958	1.00	45.04	C

Figure 9Q

ATOM	885	CD	ARG A 136	18.840	28.437	35.880	1.00	44.89	C
ATOM	886	NE	ARG A 136	18.043	29.521	36.442	1.00	45.05	N
ATOM	887	CZ	ARG A 136	17.561	30.538	35.736	1.00	44.74	C
ATOM	888	NH1	ARG A 136	17.794	30.611	34.433	1.00	44.68	N
ATOM	889	NH2	ARG A 136	16.854	31.484	36.337	1.00	44.28	N
ATOM	890	C	ARG A 136	22.226	28.242	36.921	1.00	46.64	C
ATOM	891	O	ARG A 136	21.963	29.443	36.987	1.00	46.85	O
ATOM	892	N	GLY A 137	23.064	27.637	37.759	1.00	48.47	N
ATOM	893	CA	GLY A 137	23.705	28.383	38.828	1.00	50.63	C
ATOM	894	C	GLY A 137	24.761	29.390	38.405	1.00	52.15	C
ATOM	895	O	GLY A 137	24.957	30.403	39.077	1.00	52.40	O
ATOM	896	N	THR A 138	25.439	29.122	37.295	1.00	53.81	N
ATOM	897	CA	THR A 138	26.493	30.007	36.804	1.00	55.54	C
ATOM	898	CB	THR A 138	27.342	29.297	35.732	1.00	55.54	C
ATOM	899	OG1	THR A 138	27.916	28.110	36.292	1.00	55.73	O
ATOM	900	CG2	THR A 138	28.458	30.209	35.236	1.00	55.51	C
ATOM	901	C	THR A 138	25.984	31.326	36.223	1.00	56.87	C
ATOM	902	O	THR A 138	26.685	32.337	36.264	1.00	57.03	O
ATOM	903	N	VAL A 139	24.769	31.314	35.682	1.00	58.47	N
ATOM	904	CA	VAL A 139	24.190	32.516	35.087	1.00	60.06	C
ATOM	905	CB	VAL A 139	23.136	32.151	34.009	1.00	59.85	C
ATOM	906	CG1	VAL A 139	23.805	31.438	32.846	1.00	59.91	C
ATOM	907	CG2	VAL A 139	22.055	31.273	34.613	1.00	59.77	C
ATOM	908	C	VAL A 139	23.537	33.432	36.123	1.00	61.27	C
ATOM	909	O	VAL A 139	23.011	34.495	35.783	1.00	61.39	O
ATOM	910	N	LYS A 140	23.581	33.020	37.386	1.00	62.64	N
ATOM	911	CA	LYS A 140	22.987	33.797	38.471	1.00	64.06	C
ATOM	912	CB	LYS A 140	22.045	32.902	39.285	1.00	64.35	C
ATOM	913	CG	LYS A 140	21.287	33.610	40.403	1.00	64.87	C
ATOM	914	CD	LYS A 140	20.275	32.679	41.073	1.00	65.20	C
ATOM	915	CE	LYS A 140	20.948	31.483	41.739	1.00	65.27	C
ATOM	916	NZ	LYS A 140	21.879	31.897	42.826	1.00	65.54	N
ATOM	917	C	LYS A 140	24.071	34.378	39.379	1.00	64.96	C
ATOM	918	O	LYS A 140	23.778	35.104	40.331	1.00	65.26	O
ATOM	919	N	ARG A 141	25.323	34.057	39.070	1.00	65.90	N
ATOM	920	CA	ARG A 141	26.464	34.523	39.850	1.00	66.86	C
ATOM	921	CB	ARG A 141	27.653	33.584	39.639	1.00	67.34	C
ATOM	922	CG	ARG A 141	27.501	32.230	40.306	1.00	68.13	C
ATOM	923	CD	ARG A 141	27.641	32.357	41.813	1.00	68.85	C
ATOM	924	NE	ARG A 141	27.467	31.079	42.497	1.00	69.48	N
ATOM	925	CZ	ARG A 141	26.332	30.387	42.510	1.00	69.74	C
ATOM	926	NH1	ARG A 141	25.263	30.847	41.873	1.00	69.96	N
ATOM	927	NH2	ARG A 141	26.262	29.238	43.167	1.00	69.94	N
ATOM	928	C	ARG A 141	26.889	35.946	39.511	1.00	67.23	C
ATOM	929	O	ARG A 141	26.868	36.353	38.349	1.00	67.16	O
ATOM	930	N	SER A 142	27.283	36.695	40.537	1.00	67.70	N
ATOM	931	CA	SER A 142	27.733	38.069	40.354	1.00	68.23	C
ATOM	932	CB	SER A 142	27.953	38.742	41.713	1.00	68.35	C
ATOM	933	OG	SER A 142	28.985	38.101	42.441	1.00	68.33	O
ATOM	934	C	SER A 142	29.040	38.061	39.567	1.00	68.56	C
ATOM	935	O	SER A 142	29.280	38.931	38.731	1.00	68.56	O
ATOM	936	N	TYR A 143	29.878	37.067	39.845	1.00	68.92	N
ATOM	937	CA	TYR A 143	31.164	36.921	39.171	1.00	69.28	C
ATOM	938	CB	TYR A 143	31.829	35.609	39.605	1.00	69.43	C
ATOM	939	CG	TYR A 143	33.270	35.440	39.157	1.00	69.75	C
ATOM	940	CD1	TYR A 143	33.605	35.365	37.804	1.00	69.92	C
ATOM	941	CE1	TYR A 143	34.930	35.193	37.395	1.00	69.93	C
ATOM	942	CD2	TYR A 143	34.300	35.339	40.094	1.00	69.94	C

Figure 9R

ATOM	943	CE2 TYR A 143	35.628	35.165	39.697	1.00	69.89	C
ATOM	944	CZ TYR A 143	35.935	35.093	38.346	1.00	69.96	C
ATOM	945	OH TYR A 143	37.243	34.918	37.950	1.00	69.93	O
ATOM	946	C TYR A 143	30.945	36.916	37.659	1.00	69.53	C
ATOM	947	O TYR A 143	31.741	37.474	36.900	1.00	69.51	O
ATOM	948	N THR A 144	29.857	36.286	37.229	1.00	69.65	N
ATOM	949	CA THR A 144	29.539	36.207	35.811	1.00	70.00	C
ATOM	950	CB THR A 144	28.400	35.200	35.553	1.00	69.84	C
ATOM	951	OG1 THR A 144	28.718	33.944	36.168	1.00	69.88	O
ATOM	952	CG2 THR A 144	28.210	34.987	34.056	1.00	69.88	C
ATOM	953	C THR A 144	29.123	37.577	35.277	1.00	70.22	C
ATOM	954	O THR A 144	29.803	38.149	34.424	1.00	70.09	O
ATOM	955	N HIS A 145	28.011	38.096	35.794	1.00	70.56	N
ATOM	956	CA HIS A 145	27.484	39.395	35.378	1.00	70.96	C
ATOM	957	CB HIS A 145	26.435	39.893	36.380	1.00	71.08	C
ATOM	958	CG HIS A 145	25.333	38.916	36.643	1.00	71.36	C
ATOM	959	CD2 HIS A 145	24.826	38.435	37.803	1.00	71.32	C
ATOM	960	ND1 HIS A 145	24.602	38.327	35.633	1.00	71.38	N
ATOM	961	CE1 HIS A 145	23.694	37.525	36.160	1.00	71.57	C
ATOM	962	NE2 HIS A 145	23.809	37.572	37.475	1.00	71.52	N
ATOM	963	C HIS A 145	28.582	40.446	35.245	1.00	71.08	C
ATOM	964	O HIS A 145	28.543	41.296	34.354	1.00	71.07	O
ATOM	965	N GLU A 146	29.559	40.381	36.142	1.00	71.21	N
ATOM	966	CA GLU A 146	30.671	41.321	36.139	1.00	71.44	C
ATOM	967	CB GLU A 146	31.480	41.165	37.428	1.00	71.84	C
ATOM	968	CG GLU A 146	30.672	41.443	38.688	1.00	72.39	C
ATOM	969	CD GLU A 146	31.393	41.024	39.956	1.00	72.71	C
ATOM	970	OE1 GLU A 146	30.792	41.143	41.043	1.00	73.01	O
ATOM	971	OE2 GLU A 146	32.558	40.576	39.868	1.00	72.85	O
ATOM	972	C GLU A 146	31.575	41.116	34.930	1.00	71.35	C
ATOM	973	O GLU A 146	31.878	42.063	34.206	1.00	71.49	O
ATOM	974	N LEU A 147	32.004	39.876	34.714	1.00	71.27	N
ATOM	975	CA LEU A 147	32.874	39.556	33.589	1.00	71.04	C
ATOM	976	CB LEU A 147	33.146	38.050	33.546	1.00	71.09	C
ATOM	977	CG LEU A 147	34.138	37.538	32.498	1.00	71.03	C
ATOM	978	CD1 LEU A 147	35.511	38.141	32.744	1.00	70.98	C
ATOM	979	CD2 LEU A 147	34.213	36.021	32.574	1.00	71.22	C
ATOM	980	C LEU A 147	32.232	40.000	32.277	1.00	70.90	C
ATOM	981	O LEU A 147	32.914	40.466	31.364	1.00	70.81	O
ATOM	982	N ILE A 148	30.914	39.855	32.198	1.00	70.62	N
ATOM	983	CA ILE A 148	30.163	40.233	31.008	1.00	70.53	C
ATOM	984	CB ILE A 148	28.669	39.878	31.172	1.00	70.38	C
ATOM	985	CG2 ILE A 148	27.858	40.466	30.025	1.00	70.25	C
ATOM	986	CG1 ILE A 148	28.506	38.358	31.229	1.00	70.30	C
ATOM	987	CD1 ILE A 148	27.075	37.894	31.422	1.00	70.22	C
ATOM	988	C ILE A 148	30.285	41.723	30.701	1.00	70.59	C
ATOM	989	O ILE A 148	30.228	42.135	29.543	1.00	70.52	O
ATOM	990	N ALA A 149	30.457	42.527	31.743	1.00	70.67	N
ATOM	991	CA ALA A 149	30.579	43.967	31.573	1.00	70.58	C
ATOM	992	CB ALA A 149	29.961	44.681	32.769	1.00	70.60	C
ATOM	993	C ALA A 149	32.034	44.392	31.402	1.00	70.54	C
ATOM	994	O ALA A 149	32.323	45.395	30.747	1.00	70.64	O
ATOM	995	N ARG A 150	32.948	43.620	31.979	1.00	70.38	N
ATOM	996	CA ARG A 150	34.370	43.938	31.906	1.00	70.26	C
ATOM	997	CB ARG A 150	35.140	43.138	32.964	1.00	70.67	C
ATOM	998	CG ARG A 150	36.625	43.473	33.034	1.00	71.26	C
ATOM	999	CD ARG A 150	37.341	42.765	34.186	1.00	71.83	C
ATOM	1000	NE ARG A 150	36.910	43.228	35.505	1.00	72.23	N

Figure 9S

ATOM	1001	CZ	ARG A 150	35.813	42.811	36.134	1.00	72.55	C
ATOM	1002	NH1	ARG A 150	35.017	41.907	35.572	1.00	72.75	N
ATOM	1003	NH2	ARG A 150	35.511	43.299	37.331	1.00	72.57	N
ATOM	1004	C	ARG A 150	35.024	43.735	30.536	1.00	69.94	C
ATOM	1005	O	ARG A 150	35.754	44.611	30.063	1.00	69.86	O
ATOM	1006	N	PHE A 151	34.773	42.595	29.895	1.00	69.42	N
ATOM	1007	CA	PHE A 151	35.380	42.329	28.591	1.00	68.83	C
ATOM	1008	CB	PHE A 151	36.232	41.055	28.644	1.00	68.80	C
ATOM	1009	CG	PHE A 151	37.376	41.128	29.616	1.00	68.86	C
ATOM	1010	CD1	PHE A 151	37.245	40.621	30.905	1.00	68.95	C
ATOM	1011	CD2	PHE A 151	38.583	41.714	29.247	1.00	68.94	C
ATOM	1012	CE1	PHE A 151	38.302	40.696	31.813	1.00	68.85	C
ATOM	1013	CE2	PHE A 151	39.645	41.794	30.148	1.00	68.87	C
ATOM	1014	CZ	PHE A 151	39.503	41.284	31.432	1.00	68.86	C
ATOM	1015	C	PHE A 151	34.400	42.221	27.426	1.00	68.31	C
ATOM	1016	O	PHE A 151	34.789	41.836	26.324	1.00	68.27	O
ATOM	1017	N	ALA A 152	33.139	42.564	27.661	1.00	67.70	N
ATOM	1018	CA	ALA A 152	32.136	42.498	26.605	1.00	67.16	C
ATOM	1019	CB	ALA A 152	31.309	41.231	26.757	1.00	67.17	C
ATOM	1020	C	ALA A 152	31.229	43.725	26.621	1.00	66.73	C
ATOM	1021	O	ALA A 152	30.010	43.613	26.510	1.00	66.67	O
ATOM	1022	N	ASN A 153	31.838	44.899	26.751	1.00	66.39	N
ATOM	1023	CA	ASN A 153	31.098	46.156	26.791	1.00	65.89	C
ATOM	1024	CB	ASN A 153	31.966	47.243	27.436	1.00	66.36	C
ATOM	1025	CG	ASN A 153	31.191	48.517	27.732	1.00	66.81	C
ATOM	1026	OD1	ASN A 153	31.761	49.509	28.191	1.00	66.98	O
ATOM	1027	ND2	ASN A 153	29.886	48.495	27.478	1.00	66.94	N
ATOM	1028	C	ASN A 153	30.669	46.600	25.392	1.00	65.27	C
ATOM	1029	O	ASN A 153	29.718	47.364	25.237	1.00	65.39	O
ATOM	1030	N	GLU A 154	31.369	46.111	24.374	1.00	64.45	N
ATOM	1031	CA	GLU A 154	31.063	46.476	22.997	1.00	63.52	C
ATOM	1032	CB	GLU A 154	32.366	46.632	22.204	1.00	64.22	C
ATOM	1033	CG	GLU A 154	33.491	45.686	22.626	1.00	65.05	C
ATOM	1034	CD	GLU A 154	33.119	44.220	22.493	1.00	65.51	C
ATOM	1035	OE1	GLU A 154	32.757	43.794	21.373	1.00	65.78	O
ATOM	1036	OE2	GLU A 154	33.193	43.495	23.510	1.00	65.61	O
ATOM	1037	C	GLU A 154	30.121	45.519	22.269	1.00	62.47	C
ATOM	1038	O	GLU A 154	29.863	45.687	21.074	1.00	62.51	O
ATOM	1039	N	CYS A 155	29.602	44.522	22.981	1.00	60.87	N
ATOM	1040	CA	CYS A 155	28.684	43.561	22.373	1.00	59.19	C
ATOM	1041	CB	CYS A 155	29.437	42.294	21.950	1.00	59.45	C
ATOM	1042	SG	CYS A 155	30.164	41.355	23.315	1.00	59.76	S
ATOM	1043	C	CYS A 155	27.564	43.192	23.337	1.00	57.82	C
ATOM	1044	O	CYS A 155	27.679	43.403	24.541	1.00	57.62	O
ATOM	1045	N	GLN A 156	26.477	42.645	22.802	1.00	56.31	N
ATOM	1046	CA	GLN A 156	25.353	42.249	23.637	1.00	54.79	C
ATOM	1047	CB	GLN A 156	24.024	42.538	22.932	1.00	55.37	C
ATOM	1048	CG	GLN A 156	23.782	41.739	21.671	1.00	56.39	C
ATOM	1049	CD	GLN A 156	22.406	41.995	21.084	1.00	57.13	C
ATOM	1050	OE1	GLN A 156	22.079	43.123	20.703	1.00	57.59	O
ATOM	1051	NE2	GLN A 156	21.590	40.946	21.011	1.00	57.49	N
ATOM	1052	C	GLN A 156	25.457	40.767	23.976	1.00	53.29	C
ATOM	1053	O	GLN A 156	25.692	39.929	23.107	1.00	53.00	O
ATOM	1054	N	ILE A 157	25.275	40.453	25.252	1.00	51.67	N
ATOM	1055	CA	ILE A 157	25.372	39.081	25.720	1.00	49.85	C
ATOM	1056	CB	ILE A 157	26.185	39.009	27.030	1.00	50.01	C
ATOM	1057	CG2	ILE A 157	26.243	37.575	27.537	1.00	50.23	C
ATOM	1058	CG1	ILE A 157	27.589	39.570	26.801	1.00	50.25	C

Figure 9T

ATOM	1059	CD1 ILE A 157	28.382	38.852	25.727	1.00	50.65	C
ATOM	1060	C ILE A 157	24.021	38.430	25.958	1.00	48.42	C
ATOM	1061	O ILE A 157	23.185	38.955	26.689	1.00	48.14	O
ATOM	1062	N GLU A 158	23.819	37.279	25.328	1.00	46.69	N
ATOM	1063	CA GLU A 158	22.589	36.518	25.481	1.00	45.32	C
ATOM	1064	CB GLU A 158	22.104	35.996	24.127	1.00	45.68	C
ATOM	1065	CG GLU A 158	21.695	37.070	23.136	1.00	46.58	C
ATOM	1066	CD GLU A 158	20.560	37.931	23.652	1.00	47.34	C
ATOM	1067	OE1 GLU A 158	19.576	37.369	24.179	1.00	47.28	O
ATOM	1068	OE2 GLU A 158	20.650	39.169	23.525	1.00	48.19	O
ATOM	1069	C GLU A 158	22.920	35.336	26.385	1.00	43.98	C
ATOM	1070	O GLU A 158	23.606	34.407	25.963	1.00	43.50	O
ATOM	1071	N MET A 159	22.446	35.378	27.626	1.00	42.74	N
ATOM	1072	CA MET A 159	22.711	34.295	28.570	1.00	41.56	C
ATOM	1073	CB MET A 159	22.798	34.815	30.004	1.00	42.39	C
ATOM	1074	CG MET A 159	24.088	35.514	30.371	1.00	44.11	C
ATOM	1075	SD MET A 159	24.267	35.526	32.176	1.00	46.60	S
ATOM	1076	CE MET A 159	22.851	36.541	32.649	1.00	46.03	C
ATOM	1077	C MET A 159	21.648	33.218	28.532	1.00	40.26	C
ATOM	1078	O MET A 159	20.464	33.501	28.365	1.00	39.98	O
ATOM	1079	N LEU A 160	22.083	31.978	28.704	1.00	38.69	N
ATOM	1080	CA LEU A 160	21.172	30.848	28.721	1.00	37.59	C
ATOM	1081	CB LEU A 160	21.018	30.279	27.305	1.00	37.60	C
ATOM	1082	CG LEU A 160	19.784	29.422	27.024	1.00	37.90	C
ATOM	1083	CD1 LEU A 160	19.650	29.202	25.519	1.00	37.83	C
ATOM	1084	CD2 LEU A 160	19.890	28.097	27.761	1.00	37.80	C
ATOM	1085	C LEU A 160	21.750	29.800	29.677	1.00	36.65	C
ATOM	1086	O LEU A 160	22.753	29.151	29.374	1.00	36.13	O
ATOM	1087	N GLY A 161	21.125	29.663	30.844	1.00	35.74	N
ATOM	1088	CA GLY A 161	21.586	28.699	31.831	1.00	34.53	C
ATOM	1089	C GLY A 161	20.761	27.429	31.760	1.00	33.81	C
ATOM	1090	O GLY A 161	19.531	27.483	31.773	1.00	33.71	O
ATOM	1091	N SER A 162	21.424	26.281	31.688	1.00	32.70	N
ATOM	1092	CA SER A 162	20.701	25.018	31.599	1.00	31.67	C
ATOM	1093	CB SER A 162	20.570	24.587	30.134	1.00	30.98	C
ATOM	1094	OG SER A 162	19.993	23.293	30.042	1.00	30.57	O
ATOM	1095	C SER A 162	21.317	23.873	32.386	1.00	31.01	C
ATOM	1096	O SER A 162	22.365	23.346	32.016	1.00	30.76	O
ATOM	1097	N ALA A 163	20.650	23.477	33.464	1.00	30.33	N
ATOM	1098	CA ALA A 163	21.125	22.369	34.273	1.00	29.58	C
ATOM	1099	CB ALA A 163	20.385	22.341	35.603	1.00	30.07	C
ATOM	1100	C ALA A 163	20.856	21.080	33.489	1.00	29.44	C
ATOM	1101	O ALA A 163	21.569	20.089	33.631	1.00	28.92	O
ATOM	1102	N GLU A 164	19.825	21.106	32.649	1.00	29.32	N
ATOM	1103	CA GLU A 164	19.476	19.936	31.853	1.00	29.78	C
ATOM	1104	CB GLU A 164	18.172	20.184	31.095	1.00	31.44	C
ATOM	1105	CG GLU A 164	17.655	18.951	30.371	1.00	34.82	C
ATOM	1106	CD GLU A 164	16.325	19.187	29.679	1.00	36.46	C
ATOM	1107	OE1 GLU A 164	15.678	20.222	29.958	1.00	38.07	O
ATOM	1108	OE2 GLU A 164	15.924	18.327	28.864	1.00	37.79	O
ATOM	1109	C GLU A 164	20.582	19.575	30.859	1.00	29.30	C
ATOM	1110	O GLU A 164	20.847	18.399	30.596	1.00	28.77	O
ATOM	1111	N MET A 165	21.232	20.587	30.300	1.00	28.45	N
ATOM	1112	CA MET A 165	22.298	20.317	29.345	1.00	28.20	C
ATOM	1113	CB MET A 165	22.778	21.620	28.710	1.00	28.91	C
ATOM	1114	CG MET A 165	23.570	21.398	27.431	1.00	30.59	C
ATOM	1115	SD MET A 165	24.035	22.940	26.620	1.00	31.94	S
ATOM	1116	CE MET A 165	22.494	23.418	25.882	1.00	31.97	C

Figure 9U

ATOM	1117	C	MET A 165	23.454	19.606	30.050	1.00	27.54	C
ATOM	1118	O	MET A 165	24.131	18.758	29.463	1.00	27.24	O
ATOM	1119	N	VAL A 166	23.678	19.952	31.314	1.00	26.73	N
ATOM	1120	CA	VAL A 166	24.740	19.311	32.073	1.00	26.74	C
ATOM	1121	CB	VAL A 166	24.841	19.883	33.500	1.00	26.61	C
ATOM	1122	CG1	VAL A 166	25.928	19.145	34.277	1.00	26.96	C
ATOM	1123	CG2	VAL A 166	25.149	21.373	33.441	1.00	26.49	C
ATOM	1124	C	VAL A 166	24.424	17.820	32.152	1.00	27.07	C
ATOM	1125	O	VAL A 166	25.301	16.980	31.972	1.00	26.02	O
ATOM	1126	N	GLU A 167	23.158	17.506	32.417	1.00	27.89	N
ATOM	1127	CA	GLU A 167	22.714	16.121	32.517	1.00	29.12	C
ATOM	1128	CB	GLU A 167	21.260	16.062	33.002	1.00	31.04	C
ATOM	1129	CG	GLU A 167	21.099	16.378	34.471	1.00	34.37	C
ATOM	1130	CD	GLU A 167	22.033	15.552	35.344	1.00	36.89	C
ATOM	1131	OE1	GLU A 167	22.130	14.321	35.130	1.00	38.46	O
ATOM	1132	OE2	GLU A 167	22.675	16.130	36.249	1.00	38.74	O
ATOM	1133	C	GLU A 167	22.842	15.390	31.189	1.00	28.28	C
ATOM	1134	O	GLU A 167	23.150	14.200	31.153	1.00	28.26	O
ATOM	1135	N	LEU A 168	22.598	16.100	30.095	1.00	28.21	N
ATOM	1136	CA	LEU A 168	22.712	15.494	28.779	1.00	28.05	C
ATOM	1137	CB	LEU A 168	22.265	16.487	27.697	1.00	28.07	C
ATOM	1138	CG	LEU A 168	20.756	16.747	27.683	1.00	28.26	C
ATOM	1139	CD1	LEU A 168	20.422	17.814	26.662	1.00	28.45	C
ATOM	1140	CD2	LEU A 168	20.025	15.452	27.366	1.00	28.49	C
ATOM	1141	C	LEU A 168	24.163	15.077	28.568	1.00	27.93	C
ATOM	1142	O	LEU A 168	24.438	13.999	28.037	1.00	28.11	O
ATOM	1143	N	ALA A 169	25.089	15.926	29.007	1.00	27.73	N
ATOM	1144	CA	ALA A 169	26.515	15.632	28.873	1.00	28.12	C
ATOM	1145	CB	ALA A 169	27.358	16.852	29.288	1.00	27.69	C
ATOM	1146	C	ALA A 169	26.859	14.426	29.746	1.00	28.18	C
ATOM	1147	O	ALA A 169	27.572	13.519	29.311	1.00	28.29	O
ATOM	1148	N	GLU A 170	26.357	14.415	30.978	1.00	28.76	N
ATOM	1149	CA	GLU A 170	26.610	13.285	31.873	1.00	29.18	C
ATOM	1150	CB	GLU A 170	25.898	13.480	33.218	1.00	29.14	C
ATOM	1151	CG	GLU A 170	26.581	14.460	34.167	1.00	29.02	C
ATOM	1152	CD	GLU A 170	27.862	13.903	34.788	1.00	29.97	C
ATOM	1153	OE1	GLU A 170	28.793	14.700	35.045	1.00	29.30	O
ATOM	1154	OE2	GLU A 170	27.939	12.676	35.032	1.00	30.01	O
ATOM	1155	C	GLU A 170	26.099	12.011	31.205	1.00	29.51	C
ATOM	1156	O	GLU A 170	26.824	11.025	31.090	1.00	29.71	O
ATOM	1157	N	ALA A 171	24.848	12.042	30.752	1.00	29.94	N
ATOM	1158	CA	ALA A 171	24.253	10.883	30.094	1.00	30.26	C
ATOM	1159	CB	ALA A 171	22.868	11.234	29.572	1.00	30.29	C
ATOM	1160	C	ALA A 171	25.124	10.394	28.947	1.00	30.81	C
ATOM	1161	O	ALA A 171	25.412	9.201	28.834	1.00	31.13	O
ATOM	1162	N	LYS A 172	25.546	11.316	28.091	1.00	31.06	N
ATOM	1163	CA	LYS A 172	26.366	10.947	26.950	1.00	32.12	C
ATOM	1164	CB	LYS A 172	26.795	12.192	26.171	1.00	32.06	C
ATOM	1165	CG	LYS A 172	27.626	11.871	24.940	1.00	32.46	C
ATOM	1166	CD	LYS A 172	28.013	13.136	24.180	1.00	32.50	C
ATOM	1167	CE	LYS A 172	28.815	12.800	22.932	1.00	33.01	C
ATOM	1168	NZ	LYS A 172	29.159	14.022	22.167	1.00	32.96	N
ATOM	1169	C	LYS A 172	27.597	10.131	27.326	1.00	32.64	C
ATOM	1170	O	LYS A 172	27.829	9.062	26.757	1.00	32.92	O
ATOM	1171	N	LEU A 173	28.387	10.620	28.276	1.00	33.14	N
ATOM	1172	CA	LEU A 173	29.587	9.897	28.669	1.00	34.31	C
ATOM	1173	CB	LEU A 173	30.552	10.812	29.433	1.00	34.17	C
ATOM	1174	CG	LEU A 173	31.093	12.078	28.747	1.00	34.37	C

Figure 9V

ATOM	1175	CD1 LEU A 173	32.576	12.212	29.062	1.00	33.96	C
ATOM	1176	CD2 LEU A 173	30.880	12.025	27.247	1.00	34.33	C
ATOM	1177	C LEU A 173	29.278	8.653	29.496	1.00	35.30	C
ATOM	1178	O LEU A 173	30.172	7.870	29.805	1.00	35.42	O
ATOM	1179	N HIS A 174	28.015	8.473	29.864	1.00	36.72	N
ATOM	1180	CA HIS A 174	27.630	7.293	30.626	1.00	38.16	C
ATOM	1181	CB HIS A 174	26.560	7.644	31.664	1.00	37.76	C
ATOM	1182	CG HIS A 174	27.124	8.213	32.929	1.00	37.39	C
ATOM	1183	CD2 HIS A 174	27.348	9.494	33.308	1.00	37.15	C
ATOM	1184	ND1 HIS A 174	27.602	7.422	33.953	1.00	37.82	N
ATOM	1185	CE1 HIS A 174	28.095	8.192	34.907	1.00	37.44	C
ATOM	1186	NE2 HIS A 174	27.955	9.453	34.540	1.00	37.12	N
ATOM	1187	C HIS A 174	27.130	6.219	29.669	1.00	39.31	C
ATOM	1188	O HIS A 174	26.810	5.108	30.083	1.00	39.72	O
ATOM	1189	N GLY A 175	27.073	6.560	28.384	1.00	40.42	N
ATOM	1190	CA GLY A 175	26.639	5.597	27.387	1.00	41.81	C
ATOM	1191	C GLY A 175	25.287	5.845	26.747	1.00	43.00	C
ATOM	1192	O GLY A 175	24.886	5.105	25.846	1.00	43.03	O
ATOM	1193	N GLU A 176	24.571	6.868	27.204	1.00	43.77	N
ATOM	1194	CA GLU A 176	23.266	7.173	26.629	1.00	45.02	C
ATOM	1195	CB GLU A 176	22.324	7.762	27.686	1.00	46.03	C
ATOM	1196	CG GLU A 176	21.921	6.795	28.792	1.00	47.96	C
ATOM	1197	CD GLU A 176	22.955	6.689	29.898	1.00	49.25	C
ATOM	1198	OE1 GLU A 176	23.169	7.694	30.614	1.00	49.83	O
ATOM	1199	OE2 GLU A 176	23.552	5.601	30.055	1.00	50.12	O
ATOM	1200	C GLU A 176	23.413	8.153	25.474	1.00	45.17	C
ATOM	1201	O GLU A 176	24.327	8.975	25.459	1.00	45.70	O
ATOM	1202	N ASP A 177	22.512	8.059	24.503	1.00	45.24	N
ATOM	1203	CA ASP A 177	22.545	8.938	23.342	1.00	44.89	C
ATOM	1204	CB ASP A 177	21.869	8.253	22.157	1.00	46.19	C
ATOM	1205	CG ASP A 177	22.460	6.882	21.871	1.00	47.31	C
ATOM	1206	OD1 ASP A 177	23.559	6.818	21.272	1.00	47.70	O
ATOM	1207	OD2 ASP A 177	21.831	5.873	22.267	1.00	48.01	O
ATOM	1208	C ASP A 177	21.833	10.238	23.672	1.00	43.98	C
ATOM	1209	O ASP A 177	20.814	10.243	24.357	1.00	44.07	O
ATOM	1210	N VAL A 178	22.381	11.342	23.186	1.00	42.87	N
ATOM	1211	CA VAL A 178	21.800	12.649	23.441	1.00	41.57	C
ATOM	1212	CB VAL A 178	22.852	13.765	23.229	1.00	41.43	C
ATOM	1213	CG1 VAL A 178	22.253	15.120	23.567	1.00	40.77	C
ATOM	1214	CG2 VAL A 178	24.085	13.484	24.083	1.00	41.33	C
ATOM	1215	C VAL A 178	20.608	12.913	22.524	1.00	40.74	C
ATOM	1216	O VAL A 178	20.715	12.801	21.305	1.00	40.65	O
ATOM	1217	N SER A 179	19.471	13.260	23.118	1.00	40.12	N
ATOM	1218	CA SER A 179	18.271	13.564	22.346	1.00	39.22	C
ATOM	1219	CB SER A 179	17.032	13.517	23.234	1.00	39.19	C
ATOM	1220	OG SER A 179	15.955	14.187	22.604	1.00	39.12	O
ATOM	1221	C SER A 179	18.397	14.957	21.751	1.00	38.78	C
ATOM	1222	O SER A 179	18.419	15.950	22.482	1.00	38.57	O
ATOM	1223	N LEU A 180	18.480	15.036	20.427	1.00	38.11	N
ATOM	1224	CA LEU A 180	18.602	16.330	19.772	1.00	37.12	C
ATOM	1225	CB LEU A 180	18.859	16.153	18.276	1.00	37.25	C
ATOM	1226	CG LEU A 180	20.159	15.430	17.903	1.00	37.36	C
ATOM	1227	CD1 LEU A 180	20.354	15.483	16.394	1.00	37.56	C
ATOM	1228	CD2 LEU A 180	21.344	16.082	18.615	1.00	37.57	C
ATOM	1229	C LEU A 180	17.355	17.173	19.995	1.00	36.72	C
ATOM	1230	O LEU A 180	17.433	18.398	20.045	1.00	36.33	O
ATOM	1231	N ASP A 181	16.203	16.523	20.136	1.00	36.44	N
ATOM	1232	CA ASP A 181	14.966	17.256	20.366	1.00	36.07	C

Figure 9W

ATOM	1233	CB	ASP	A	181	13.754	16.319	20.311	1.00	37.55	C
ATOM	1234	CG	ASP	A	181	13.486	15.790	18.909	1.00	38.95	C
ATOM	1235	OD1	ASP	A	181	13.589	16.570	17.937	1.00	39.74	O
ATOM	1236	OD2	ASP	A	181	13.158	14.594	18.777	1.00	40.38	O
ATOM	1237	C	ASP	A	181	15.014	17.971	21.714	1.00	34.99	C
ATOM	1238	O	ASP	A	181	14.491	19.074	21.859	1.00	34.62	O
ATOM	1239	N	ALA	A	182	15.638	17.337	22.702	1.00	34.20	N
ATOM	1240	CA	ALA	A	182	15.766	17.939	24.026	1.00	33.44	C
ATOM	1241	CB	ALA	A	182	16.388	16.937	25.003	1.00	33.26	C
ATOM	1242	C	ALA	A	182	16.645	19.186	23.910	1.00	32.88	C
ATOM	1243	O	ALA	A	182	16.362	20.216	24.514	1.00	32.37	O
ATOM	1244	N	LEU	A	183	17.714	19.085	23.124	1.00	32.52	N
ATOM	1245	CA	LEU	A	183	18.614	20.214	22.915	1.00	31.97	C
ATOM	1246	CB	LEU	A	183	19.823	19.796	22.080	1.00	32.53	C
ATOM	1247	CG	LEU	A	183	21.089	19.365	22.816	1.00	33.44	C
ATOM	1248	CD1	LEU	A	183	22.184	19.088	21.785	1.00	33.67	C
ATOM	1249	CD2	LEU	A	183	21.533	20.463	23.787	1.00	33.50	C
ATOM	1250	C	LEU	A	183	17.913	21.366	22.213	1.00	31.47	C
ATOM	1251	O	LEU	A	183	18.060	22.524	22.609	1.00	31.07	O
ATOM	1252	N	LYS	A	184	17.160	21.050	21.163	1.00	30.86	N
ATOM	1253	CA	LYS	A	184	16.443	22.075	20.413	1.00	31.16	C
ATOM	1254	CB	LYS	A	184	15.651	21.445	19.262	1.00	31.63	C
ATOM	1255	CG	LYS	A	184	16.513	20.868	18.158	1.00	32.93	C
ATOM	1256	CD	LYS	A	184	15.675	20.111	17.139	1.00	33.75	C
ATOM	1257	CE	LYS	A	184	16.556	19.416	16.115	1.00	34.92	C
ATOM	1258	NZ	LYS	A	184	15.750	18.568	15.178	1.00	35.78	N
ATOM	1259	C	LYS	A	184	15.487	22.824	21.328	1.00	30.89	C
ATOM	1260	O	LYS	A	184	15.307	24.033	21.199	1.00	30.37	O
ATOM	1261	N	ARG	A	185	14.869	22.090	22.244	1.00	30.97	N
ATOM	1262	CA	ARG	A	185	13.926	22.680	23.183	1.00	31.66	C
ATOM	1263	CB	ARG	A	185	13.260	21.576	24.011	1.00	32.95	C
ATOM	1264	CG	ARG	A	185	12.273	22.095	25.045	1.00	35.19	C
ATOM	1265	CD	ARG	A	185	11.071	22.763	24.385	1.00	36.95	C
ATOM	1266	NE	ARG	A	185	10.276	23.497	25.366	1.00	38.48	N
ATOM	1267	CZ	ARG	A	185	10.678	24.616	25.959	1.00	39.27	C
ATOM	1268	NH1	ARG	A	185	11.864	25.138	25.668	1.00	39.25	N
ATOM	1269	NH2	ARG	A	185	9.901	25.206	26.857	1.00	40.18	N
ATOM	1270	C	ARG	A	185	14.667	23.645	24.101	1.00	30.92	C
ATOM	1271	O	ARG	A	185	14.239	24.781	24.313	1.00	30.74	O
ATOM	1272	N	ILE	A	186	15.789	23.186	24.642	1.00	30.14	N
ATOM	1273	CA	ILE	A	186	16.585	24.022	25.528	1.00	29.32	C
ATOM	1274	CB	ILE	A	186	17.832	23.252	26.037	1.00	29.04	C
ATOM	1275	CG2	ILE	A	186	18.741	24.190	26.829	1.00	29.20	C
ATOM	1276	CG1	ILE	A	186	17.389	22.058	26.894	1.00	29.51	C
ATOM	1277	CD1	ILE	A	186	18.534	21.148	27.330	1.00	29.37	C
ATOM	1278	C	ILE	A	186	17.037	25.285	24.792	1.00	28.71	C
ATOM	1279	O	ILE	A	186	17.015	26.380	25.351	1.00	28.31	O
ATOM	1280	N	LEU	A	187	17.435	25.130	23.532	1.00	28.36	N
ATOM	1281	CA	LEU	A	187	17.911	26.257	22.733	1.00	28.42	C
ATOM	1282	CB	LEU	A	187	18.998	25.772	21.757	1.00	28.23	C
ATOM	1283	CG	LEU	A	187	20.268	25.207	22.409	1.00	28.51	C
ATOM	1284	CD1	LEU	A	187	21.125	24.483	21.376	1.00	28.72	C
ATOM	1285	CD2	LEU	A	187	21.049	26.337	23.051	1.00	28.48	C
ATOM	1286	C	LEU	A	187	16.814	26.996	21.956	1.00	28.77	C
ATOM	1287	O	LEU	A	187	17.105	27.913	21.189	1.00	27.81	O
ATOM	1288	N	ARG	A	188	15.559	26.611	22.173	1.00	29.44	N
ATOM	1289	CA	ARG	A	188	14.437	27.232	21.470	1.00	30.59	C
ATOM	1290	CB	ARG	A	188	13.096	26.759	22.066	1.00	31.00	C

Figure 9X

ATOM	1291	CG	ARG A 188	11.880	27.044	21.161	1.00	31.92	C
ATOM	1292	CD	ARG A 188	10.591	26.415	21.694	1.00	32.72	C
ATOM	1293	NE	ARG A 188	10.065	27.111	22.869	1.00	33.40	N
ATOM	1294	CZ	ARG A 188	8.896	26.834	23.440	1.00	33.80	C
ATOM	1295	NH1	ARG A 188	8.127	25.871	22.951	1.00	34.90	N
ATOM	1296	NH2	ARG A 188	8.486	27.525	24.492	1.00	34.07	N
ATOM	1297	C	ARG A 188	14.522	28.761	21.479	1.00	31.15	C
ATOM	1298	O	ARG A 188	14.384	29.394	20.437	1.00	31.37	O
ATOM	1299	N	PRO A 189	14.778	29.373	22.652	1.00	31.69	N
ATOM	1300	CD	PRO A 189	15.085	28.750	23.953	1.00	31.58	C
ATOM	1301	CA	PRO A 189	14.877	30.835	22.741	1.00	32.00	C
ATOM	1302	CB	PRO A 189	15.460	31.055	24.134	1.00	32.34	C
ATOM	1303	CG	PRO A 189	14.931	29.907	24.908	1.00	32.12	C
ATOM	1304	C	PRO A 189	15.781	31.423	21.661	1.00	32.69	C
ATOM	1305	O	PRO A 189	15.444	32.428	21.024	1.00	33.41	O
ATOM	1306	N	TRP A 190	16.937	30.795	21.467	1.00	32.33	N
ATOM	1307	CA	TRP A 190	17.902	31.251	20.478	1.00	32.66	C
ATOM	1308	CB	TRP A 190	19.276	30.637	20.767	1.00	31.96	C
ATOM	1309	CG	TRP A 190	19.946	31.238	21.972	1.00	31.74	C
ATOM	1310	CD2	TRP A 190	21.261	30.942	22.461	1.00	31.19	C
ATOM	1311	CE2	TRP A 190	21.475	31.752	23.597	1.00	31.14	C
ATOM	1312	CE3	TRP A 190	22.278	30.070	22.048	1.00	31.17	C
ATOM	1313	CD1	TRP A 190	19.432	32.187	22.808	1.00	31.47	C
ATOM	1314	NE1	TRP A 190	20.343	32.502	23.786	1.00	31.75	N
ATOM	1315	CZ2	TRP A 190	22.666	31.719	24.327	1.00	30.64	C
ATOM	1316	CZ3	TRP A 190	23.468	30.038	22.777	1.00	30.63	C
ATOM	1317	CH2	TRP A 190	23.647	30.858	23.903	1.00	30.76	C
ATOM	1318	C	TRP A 190	17.473	30.936	19.053	1.00	32.80	C
ATOM	1319	O	TRP A 190	17.678	31.739	18.151	1.00	33.14	O
ATOM	1320	N	LEU A 191	16.875	29.769	18.853	1.00	33.23	N
ATOM	1321	CA	LEU A 191	16.420	29.384	17.525	1.00	34.12	C
ATOM	1322	CB	LEU A 191	15.997	27.913	17.514	1.00	34.10	C
ATOM	1323	CG	LEU A 191	17.133	26.920	17.767	1.00	34.63	C
ATOM	1324	CD1	LEU A 191	16.571	25.512	17.926	1.00	34.77	C
ATOM	1325	CD2	LEU A 191	18.124	26.985	16.605	1.00	34.84	C
ATOM	1326	C	LEU A 191	15.264	30.262	17.047	1.00	34.32	C
ATOM	1327	O	LEU A 191	14.943	30.270	15.864	1.00	34.60	O
ATOM	1328	N	ARG A 192	14.640	31.000	17.962	1.00	34.66	N
ATOM	1329	CA	ARG A 192	13.532	31.879	17.584	1.00	35.36	C
ATOM	1330	CB	ARG A 192	12.417	31.827	18.630	1.00	35.21	C
ATOM	1331	CG	ARG A 192	11.568	30.569	18.575	1.00	34.86	C
ATOM	1332	CD	ARG A 192	10.556	30.560	19.709	1.00	34.91	C
ATOM	1333	NE	ARG A 192	9.624	29.440	19.608	1.00	35.35	N
ATOM	1334	CZ	ARG A 192	8.670	29.181	20.500	1.00	34.80	C
ATOM	1335	NH1	ARG A 192	8.528	29.960	21.563	1.00	34.29	N
ATOM	1336	NH2	ARG A 192	7.851	28.152	20.318	1.00	34.13	N
ATOM	1337	C	ARG A 192	13.966	33.328	17.393	1.00	35.93	C
ATOM	1338	O	ARG A 192	13.130	34.204	17.168	1.00	36.00	O
ATOM	1339	N	MET A 193	15.270	33.579	17.479	1.00	36.28	N
ATOM	1340	CA	MET A 193	15.797	34.930	17.316	1.00	36.54	C
ATOM	1341	CB	MET A 193	17.139	35.070	18.045	1.00	36.79	C
ATOM	1342	CG	MET A 193	17.038	35.165	19.564	1.00	36.88	C
ATOM	1343	SD	MET A 193	18.669	35.278	20.352	1.00	37.53	S
ATOM	1344	CE	MET A 193	19.079	37.031	20.122	1.00	36.86	C
ATOM	1345	C	MET A 193	15.987	35.306	15.848	1.00	36.67	C
ATOM	1346	O	MET A 193	16.368	34.467	15.025	1.00	36.46	O
ATOM	1347	N	LYS A 194	15.715	36.570	15.526	1.00	37.01	N
ATOM	1348	CA	LYS A 194	15.889	37.067	14.163	1.00	37.69	C

Figure 9Y

ATOM	1349	CB	LYS A 194	15.478	38.545	14.064	1.00	38.05	C
ATOM	1350	CG	LYS A 194	15.613	39.121	12.654	1.00	38.80	C
ATOM	1351	CD	LYS A 194	16.261	40.515	12.623	1.00	39.92	C
ATOM	1352	CE	LYS A 194	15.284	41.663	12.887	1.00	40.54	C
ATOM	1353	NZ	LYS A 194	14.817	41.801	14.299	1.00	41.22	N
ATOM	1354	C	LYS A 194	17.374	36.928	13.832	1.00	37.73	C
ATOM	1355	O	LYS A 194	17.757	36.399	12.787	1.00	37.39	O
ATOM	1356	N	GLU A 195	18.206	37.413	14.744	1.00	38.33	N
ATOM	1357	CA	GLU A 195	19.650	37.332	14.574	1.00	38.43	C
ATOM	1358	CB	GLU A 195	20.248	38.722	14.361	1.00	39.41	C
ATOM	1359	CG	GLU A 195	21.766	38.698	14.281	1.00	41.23	C
ATOM	1360	CD	GLU A 195	22.348	39.961	13.690	1.00	42.54	C
ATOM	1361	OE1	GLU A 195	21.953	41.066	14.125	1.00	43.29	O
ATOM	1362	OE2	GLU A 195	23.211	39.844	12.792	1.00	43.45	O
ATOM	1363	C	GLU A 195	20.268	36.688	15.810	1.00	37.55	C
ATOM	1364	O	GLU A 195	20.596	37.368	16.781	1.00	37.40	O
ATOM	1365	N	PRO A 196	20.422	35.358	15.792	1.00	36.88	N
ATOM	1366	CD	PRO A 196	20.121	34.417	14.697	1.00	37.02	C
ATOM	1367	CA	PRO A 196	21.006	34.659	16.940	1.00	36.26	C
ATOM	1368	CB	PRO A 196	20.744	33.191	16.611	1.00	36.49	C
ATOM	1369	CG	PRO A 196	20.877	33.165	15.122	1.00	37.04	C
ATOM	1370	C	PRO A 196	22.491	34.973	17.078	1.00	35.39	C
ATOM	1371	O	PRO A 196	23.105	35.530	16.166	1.00	35.42	O
ATOM	1372	N	PRO A 197	23.089	34.626	18.228	1.00	34.89	N
ATOM	1373	CD	PRO A 197	22.518	33.900	19.374	1.00	34.65	C
ATOM	1374	CA	PRO A 197	24.517	34.894	18.438	1.00	34.16	C
ATOM	1375	CB	PRO A 197	24.789	34.288	19.820	1.00	34.06	C
ATOM	1376	CG	PRO A 197	23.457	34.284	20.480	1.00	34.48	C
ATOM	1377	C	PRO A 197	25.334	34.192	17.366	1.00	33.22	C
ATOM	1378	O	PRO A 197	25.018	33.067	16.991	1.00	33.54	O
ATOM	1379	N	ASP A 198	26.376	34.838	16.857	1.00	32.64	N
ATOM	1380	CA	ASP A 198	27.200	34.173	15.861	1.00	32.00	C
ATOM	1381	CB	ASP A 198	27.669	35.169	14.782	1.00	32.92	C
ATOM	1382	CG	ASP A 198	28.741	36.136	15.269	1.00	34.20	C
ATOM	1383	OD1	ASP A 198	28.889	36.334	16.497	1.00	34.32	O
ATOM	1384	OD2	ASP A 198	29.433	36.718	14.394	1.00	34.48	O
ATOM	1385	C	ASP A 198	28.379	33.517	16.590	1.00	30.70	C
ATOM	1386	O	ASP A 198	29.151	32.754	16.008	1.00	30.48	O
ATOM	1387	N	THR A 199	28.477	33.797	17.885	1.00	29.73	N
ATOM	1388	CA	THR A 199	29.541	33.245	18.728	1.00	28.32	C
ATOM	1389	CB	THR A 199	30.609	34.317	19.009	1.00	28.44	C
ATOM	1390	OG1	THR A 199	31.040	34.892	17.767	1.00	28.45	O
ATOM	1391	CG2	THR A 199	31.817	33.703	19.712	1.00	27.68	C
ATOM	1392	C	THR A 199	28.925	32.774	20.050	1.00	27.54	C
ATOM	1393	O	THR A 199	28.258	33.544	20.731	1.00	27.62	O
ATOM	1394	N	VAL A 200	29.137	31.509	20.408	1.00	26.67	N
ATOM	1395	CA	VAL A 200	28.573	30.975	21.645	1.00	25.45	C
ATOM	1396	CB	VAL A 200	27.603	29.794	21.368	1.00	25.29	C
ATOM	1397	CG1	VAL A 200	27.103	29.205	22.688	1.00	24.41	C
ATOM	1398	CG2	VAL A 200	26.410	30.273	20.533	1.00	25.16	C
ATOM	1399	C	VAL A 200	29.665	30.485	22.586	1.00	24.96	C
ATOM	1400	O	VAL A 200	30.457	29.615	22.228	1.00	25.00	O
ATOM	1401	N	VAL A 201	29.692	31.050	23.787	1.00	24.00	N
ATOM	1402	CA	VAL A 201	30.672	30.680	24.803	1.00	24.07	C
ATOM	1403	CB	VAL A 201	30.931	31.850	25.784	1.00	23.91	C
ATOM	1404	CG1	VAL A 201	31.872	31.401	26.907	1.00	23.25	C
ATOM	1405	CG2	VAL A 201	31.527	33.032	25.035	1.00	23.70	C
ATOM	1406	C	VAL A 201	30.151	29.506	25.620	1.00	23.96	C

Figure 9Z

ATOM	1407	O	VAL A 201	29.044	29.551	26.144	1.00	24.03	O
ATOM	1408	N	LEU A 202	30.937	28.445	25.711	1.00	24.28	N
ATOM	1409	CA	LEU A 202	30.531	27.304	26.519	1.00	24.52	C
ATOM	1410	CB	LEU A 202	31.091	26.010	25.927	1.00	24.85	C
ATOM	1411	CG	LEU A 202	30.634	25.793	24.479	1.00	24.66	C
ATOM	1412	CD1	LEU A 202	31.126	24.450	23.954	1.00	25.52	C
ATOM	1413	CD2	LEU A 202	29.115	25.869	24.418	1.00	24.68	C
ATOM	1414	C	LEU A 202	31.123	27.596	27.890	1.00	24.97	C
ATOM	1415	O	LEU A 202	32.318	27.377	28.124	1.00	25.27	O
ATOM	1416	N	GLY A 203	30.283	28.132	28.772	1.00	25.47	N
ATOM	1417	CA	GLY A 203	30.708	28.498	30.114	1.00	26.68	C
ATOM	1418	C	GLY A 203	30.468	27.425	31.157	1.00	27.26	C
ATOM	1419	O	GLY A 203	30.282	27.711	32.337	1.00	28.58	O
ATOM	1420	N	CYS A 204	30.441	26.182	30.704	1.00	27.73	N
ATOM	1421	CA	CYS A 204	30.273	25.034	31.582	1.00	27.40	C
ATOM	1422	CB	CYS A 204	28.824	24.551	31.568	1.00	28.28	C
ATOM	1423	SG	CYS A 204	28.483	23.277	32.788	1.00	29.75	S
ATOM	1424	C	CYS A 204	31.200	23.998	30.959	1.00	26.65	C
ATOM	1425	O	CYS A 204	31.088	23.705	29.768	1.00	26.53	O
ATOM	1426	N	THR A 205	32.130	23.455	31.740	1.00	25.96	N
ATOM	1427	CA	THR A 205	33.072	22.481	31.188	1.00	25.54	C
ATOM	1428	CB	THR A 205	34.179	22.112	32.213	1.00	25.97	C
ATOM	1429	OG1	THR A 205	33.604	21.417	33.326	1.00	25.47	O
ATOM	1430	CG2	THR A 205	34.866	23.376	32.720	1.00	26.26	C
ATOM	1431	C	THR A 205	32.398	21.209	30.671	1.00	25.02	C
ATOM	1432	O	THR A 205	33.020	20.402	29.978	1.00	25.08	O
ATOM	1433	N	HIS A 206	31.126	21.024	31.004	1.00	25.00	N
ATOM	1434	CA	HIS A 206	30.389	19.861	30.507	1.00	25.50	C
ATOM	1435	CB	HIS A 206	29.096	19.644	31.301	1.00	25.48	C
ATOM	1436	CG	HIS A 206	29.243	18.752	32.496	1.00	25.77	C
ATOM	1437	CD2	HIS A 206	28.818	17.485	32.715	1.00	26.12	C
ATOM	1438	ND1	HIS A 206	29.853	19.158	33.664	1.00	26.12	N
ATOM	1439	CE1	HIS A 206	29.794	18.182	34.552	1.00	26.27	C
ATOM	1440	NE2	HIS A 206	29.171	17.156	34.001	1.00	25.97	N
ATOM	1441	C	HIS A 206	29.990	20.056	29.038	1.00	25.23	C
ATOM	1442	O	HIS A 206	29.915	19.096	28.261	1.00	24.85	O
ATOM	1443	N	PHE A 207	29.739	21.305	28.661	1.00	25.12	N
ATOM	1444	CA	PHE A 207	29.259	21.602	27.314	1.00	24.78	C
ATOM	1445	CB	PHE A 207	28.765	23.059	27.262	1.00	24.50	C
ATOM	1446	CG	PHE A 207	27.625	23.346	28.223	1.00	24.94	C
ATOM	1447	CD1	PHE A 207	27.171	24.651	28.422	1.00	24.92	C
ATOM	1448	CD2	PHE A 207	27.019	22.311	28.945	1.00	25.02	C
ATOM	1449	CE1	PHE A 207	26.137	24.924	29.322	1.00	24.91	C
ATOM	1450	CE2	PHE A 207	25.984	22.574	29.848	1.00	24.68	C
ATOM	1451	CZ	PHE A 207	25.544	23.881	30.037	1.00	24.50	C
ATOM	1452	C	PHE A 207	30.139	21.263	26.117	1.00	24.23	C
ATOM	1453	O	PHE A 207	29.624	20.794	25.105	1.00	24.49	O
ATOM	1454	N	PRO A 208	31.467	21.485	26.199	1.00	24.05	N
ATOM	1455	CD	PRO A 208	32.268	22.196	27.216	1.00	23.52	C
ATOM	1456	CA	PRO A 208	32.292	21.140	25.035	1.00	23.79	C
ATOM	1457	CB	PRO A 208	33.709	21.443	25.519	1.00	23.37	C
ATOM	1458	CG	PRO A 208	33.497	22.617	26.415	1.00	23.62	C
ATOM	1459	C	PRO A 208	32.111	19.665	24.650	1.00	23.75	C
ATOM	1460	O	PRO A 208	32.307	19.283	23.496	1.00	23.71	O
ATOM	1461	N	LEU A 209	31.731	18.846	25.628	1.00	24.35	N
ATOM	1462	CA	LEU A 209	31.510	17.416	25.400	1.00	24.73	C
ATOM	1463	CB	LEU A 209	31.225	16.703	26.730	1.00	24.44	C
ATOM	1464	CG	LEU A 209	32.351	16.705	27.763	1.00	24.17	C

Figure 9AA

ATOM	1465	CD1 LEU A 209	31.856	16.084	29.055	1.00	24.39	C
ATOM	1466	CD2 LEU A 209	33.546	15.940	27.213	1.00	25.04	C
ATOM	1467	C LEU A 209	30.330	17.193	24.453	1.00	24.96	C
ATOM	1468	O LEU A 209	30.185	16.115	23.871	1.00	25.40	O
ATOM	1469	N LEU A 210	29.492	18.214	24.311	1.00	25.40	N
ATOM	1470	CA LEU A 210	28.313	18.150	23.445	1.00	26.09	C
ATOM	1471	CB LEU A 210	27.091	18.700	24.187	1.00	26.08	C
ATOM	1472	CG LEU A 210	26.612	17.931	25.424	1.00	26.43	C
ATOM	1473	CD1 LEU A 210	25.590	18.754	26.165	1.00	26.49	C
ATOM	1474	CD2 LEU A 210	26.031	16.587	25.006	1.00	26.75	C
ATOM	1475	C LEU A 210	28.513	18.956	22.165	1.00	26.97	C
ATOM	1476	O LEU A 210	27.551	19.238	21.443	1.00	26.49	O
ATOM	1477	N GLN A 211	29.754	19.325	21.877	1.00	27.84	N
ATOM	1478	CA GLN A 211	30.018	20.125	20.689	1.00	29.76	C
ATOM	1479	CB GLN A 211	31.525	20.241	20.426	1.00	31.43	C
ATOM	1480	CG GLN A 211	31.822	21.058	19.169	1.00	35.04	C
ATOM	1481	CD GLN A 211	33.278	21.444	19.027	1.00	36.79	C
ATOM	1482	OE1 GLN A 211	33.814	22.205	19.840	1.00	38.21	O
ATOM	1483	NE2 GLN A 211	33.929	20.926	17.985	1.00	37.92	N
ATOM	1484	C GLN A 211	29.319	19.624	19.428	1.00	29.78	C
ATOM	1485	O GLN A 211	28.629	20.390	18.757	1.00	29.75	O
ATOM	1486	N GLU A 212	29.482	18.346	19.104	1.00	30.23	N
ATOM	1487	CA GLU A 212	28.857	17.805	17.898	1.00	31.41	C
ATOM	1488	CB GLU A 212	29.173	16.312	17.750	1.00	33.48	C
ATOM	1489	CG GLU A 212	28.789	15.739	16.391	1.00	36.83	C
ATOM	1490	CD GLU A 212	29.709	14.609	15.940	1.00	38.98	C
ATOM	1491	OE1 GLU A 212	30.921	14.860	15.738	1.00	40.36	O
ATOM	1492	OE2 GLU A 212	29.223	13.468	15.786	1.00	40.67	O
ATOM	1493	C GLU A 212	27.348	18.023	17.894	1.00	30.99	C
ATOM	1494	O GLU A 212	26.791	18.548	16.928	1.00	30.68	O
ATOM	1495	N GLU A 213	26.692	17.628	18.983	1.00	30.23	N
ATOM	1496	CA GLU A 213	25.253	17.788	19.103	1.00	29.95	C
ATOM	1497	CB GLU A 213	24.760	17.214	20.436	1.00	30.26	C
ATOM	1498	CG GLU A 213	24.844	15.697	20.570	1.00	31.58	C
ATOM	1499	CD GLU A 213	26.237	15.179	20.909	1.00	32.64	C
ATOM	1500	OE1 GLU A 213	27.150	15.992	21.177	1.00	32.86	O
ATOM	1501	OE2 GLU A 213	26.412	13.942	20.915	1.00	33.12	O
ATOM	1502	C GLU A 213	24.840	19.258	19.005	1.00	29.41	C
ATOM	1503	O GLU A 213	23.857	19.587	18.338	1.00	29.01	O
ATOM	1504	N LEU A 214	25.580	20.137	19.681	1.00	28.84	N
ATOM	1505	CA LEU A 214	25.268	21.567	19.656	1.00	28.43	C
ATOM	1506	CB LEU A 214	26.216	22.348	20.570	1.00	28.13	C
ATOM	1507	CG LEU A 214	25.977	22.173	22.075	1.00	27.63	C
ATOM	1508	CD1 LEU A 214	27.109	22.818	22.862	1.00	27.49	C
ATOM	1509	CD2 LEU A 214	24.626	22.791	22.447	1.00	27.85	C
ATOM	1510	C LEU A 214	25.348	22.136	18.247	1.00	28.83	C
ATOM	1511	O LEU A 214	24.507	22.937	17.845	1.00	27.87	O
ATOM	1512	N LEU A 215	26.356	21.713	17.498	1.00	29.30	N
ATOM	1513	CA LEU A 215	26.528	22.202	16.142	1.00	30.96	C
ATOM	1514	CB LEU A 215	27.918	21.822	15.630	1.00	30.54	C
ATOM	1515	CG LEU A 215	29.025	22.593	16.358	1.00	30.81	C
ATOM	1516	CD1 LEU A 215	30.386	22.124	15.895	1.00	30.80	C
ATOM	1517	CD2 LEU A 215	28.858	24.084	16.093	1.00	30.46	C
ATOM	1518	C LEU A 215	25.440	21.709	15.191	1.00	31.93	C
ATOM	1519	O LEU A 215	25.211	22.308	14.145	1.00	32.43	O
ATOM	1520	N GLN A 216	24.762	20.625	15.551	1.00	33.13	N
ATOM	1521	CA GLN A 216	23.695	20.108	14.701	1.00	34.56	C
ATOM	1522	CB GLN A 216	23.435	18.625	14.988	1.00	35.66	C

Figure 9BB

ATOM	1523	CG	GLN A 216	24.610	17.700	14.728	1.00	37.89	C
ATOM	1524	CD	GLN A 216	24.241	16.238	14.906	1.00	39.33	C
ATOM	1525	OE1	GLN A 216	23.524	15.665	14.083	1.00	41.09	O
ATOM	1526	NE2	GLN A 216	24.717	15.629	15.988	1.00	39.66	N
ATOM	1527	C	GLN A 216	22.406	20.888	14.939	1.00	34.80	C
ATOM	1528	O	GLN A 216	21.569	21.014	14.047	1.00	35.06	O
ATOM	1529	N	VAL A 217	22.258	21.416	16.148	1.00	34.71	N
ATOM	1530	CA	VAL A 217	21.064	22.156	16.531	1.00	35.07	C
ATOM	1531	CB	VAL A 217	20.710	21.866	18.016	1.00	35.06	C
ATOM	1532	CG1	VAL A 217	19.504	22.685	18.451	1.00	35.49	C
ATOM	1533	CG2	VAL A 217	20.435	20.390	18.192	1.00	35.11	C
ATOM	1534	C	VAL A 217	21.164	23.664	16.336	1.00	35.24	C
ATOM	1535	O	VAL A 217	20.199	24.304	15.925	1.00	34.92	O
ATOM	1536	N	LEU A 218	22.326	24.233	16.640	1.00	35.48	N
ATOM	1537	CA	LEU A 218	22.520	25.674	16.511	1.00	35.98	C
ATOM	1538	CB	LEU A 218	23.837	26.097	17.175	1.00	35.20	C
ATOM	1539	CG	LEU A 218	23.954	25.958	18.699	1.00	34.74	C
ATOM	1540	CD1	LEU A 218	25.415	26.086	19.099	1.00	33.85	C
ATOM	1541	CD2	LEU A 218	23.107	27.018	19.395	1.00	34.29	C
ATOM	1542	C	LEU A 218	22.520	26.143	15.059	1.00	36.85	C
ATOM	1543	O	LEU A 218	22.923	25.408	14.154	1.00	36.56	O
ATOM	1544	N	PRO A 219	22.062	27.382	14.819	1.00	37.78	N
ATOM	1545	CD	PRO A 219	21.542	28.360	15.788	1.00	38.25	C
ATOM	1546	CA	PRO A 219	22.026	27.929	13.461	1.00	38.69	C
ATOM	1547	CB	PRO A 219	21.507	29.354	13.664	1.00	38.57	C
ATOM	1548	CG	PRO A 219	21.840	29.660	15.088	1.00	38.75	C
ATOM	1549	C	PRO A 219	23.390	27.895	12.785	1.00	39.23	C
ATOM	1550	O	PRO A 219	24.422	28.136	13.419	1.00	39.41	O
ATOM	1551	N	GLU A 220	23.381	27.591	11.494	1.00	39.72	N
ATOM	1552	CA	GLU A 220	24.600	27.502	10.698	1.00	40.27	C
ATOM	1553	CB	GLU A 220	24.250	27.481	9.207	1.00	41.80	C
ATOM	1554	CG	GLU A 220	22.941	26.777	8.874	1.00	43.87	C
ATOM	1555	CD	GLU A 220	22.413	27.165	7.498	1.00	45.18	C
ATOM	1556	OE1	GLU A 220	23.087	26.854	6.492	1.00	45.89	O
ATOM	1557	OE2	GLU A 220	21.325	27.789	7.425	1.00	45.96	O
ATOM	1558	C	GLU A 220	25.505	28.698	10.972	1.00	39.71	C
ATOM	1559	O	GLU A 220	25.023	29.808	11.211	1.00	40.05	O
ATOM	1560	N	GLY A 221	26.813	28.466	10.946	1.00	38.99	N
ATOM	1561	CA	GLY A 221	27.758	29.547	11.162	1.00	38.23	C
ATOM	1562	C	GLY A 221	28.059	29.947	12.595	1.00	37.79	C
ATOM	1563	O	GLY A 221	28.875	30.842	12.818	1.00	37.76	O
ATOM	1564	N	THR A 222	27.414	29.308	13.566	1.00	36.92	N
ATOM	1565	CA	THR A 222	27.669	29.637	14.967	1.00	36.06	C
ATOM	1566	CB	THR A 222	26.600	29.039	15.911	1.00	36.28	C
ATOM	1567	OG1	THR A 222	25.286	29.441	15.489	1.00	35.84	O
ATOM	1568	CG2	THR A 222	26.836	29.530	17.331	1.00	35.92	C
ATOM	1569	C	THR A 222	29.031	29.082	15.375	1.00	35.26	C
ATOM	1570	O	THR A 222	29.325	27.904	15.159	1.00	35.42	O
ATOM	1571	N	ARG A 223	29.864	29.934	15.962	1.00	33.89	N
ATOM	1572	CA	ARG A 223	31.187	29.515	16.395	1.00	32.73	C
ATOM	1573	CB	ARG A 223	32.213	30.593	16.048	1.00	33.48	C
ATOM	1574	CG	ARG A 223	33.634	30.257	16.448	1.00	34.74	C
ATOM	1575	CD	ARG A 223	34.572	31.304	15.885	1.00	35.80	C
ATOM	1576	NE	ARG A 223	35.976	31.038	16.180	1.00	36.83	N
ATOM	1577	CZ	ARG A 223	36.975	31.735	15.653	1.00	36.90	C
ATOM	1578	NH1	ARG A 223	36.709	32.722	14.808	1.00	37.42	N
ATOM	1579	NH2	ARG A 223	38.229	31.460	15.974	1.00	37.62	N
ATOM	1580	C	ARG A 223	31.204	29.254	17.896	1.00	31.22	C

Figure 9CC

ATOM	1581	O	ARG A 223	30.823	30.118	18.684	1.00	31.14	O
ATOM	1582	N	LEU A 224	31.649	28.063	18.287	1.00	29.77	N
ATOM	1583	CA	LEU A 224	31.714	27.702	19.698	1.00	28.63	C
ATOM	1584	CB	LEU A 224	31.501	26.196	19.885	1.00	28.14	C
ATOM	1585	CG	LEU A 224	30.191	25.617	19.343	1.00	28.31	C
ATOM	1586	CD1	LEU A 224	30.145	24.122	19.618	1.00	27.77	C
ATOM	1587	CD2	LEU A 224	29.011	26.321	19.990	1.00	28.16	C
ATOM	1588	C	LEU A 224	33.074	28.088	20.267	1.00	28.22	C
ATOM	1589	O	LEU A 224	34.113	27.855	19.646	1.00	27.72	O
ATOM	1590	N	VAL A 225	33.055	28.678	21.452	1.00	27.59	N
ATOM	1591	CA	VAL A 225	34.279	29.094	22.114	1.00	27.22	C
ATOM	1592	CB	VAL A 225	34.386	30.638	22.165	1.00	27.19	C
ATOM	1593	CG1	VAL A 225	35.669	31.047	22.875	1.00	27.27	C
ATOM	1594	CG2	VAL A 225	34.346	31.219	20.755	1.00	27.27	C
ATOM	1595	C	VAL A 225	34.315	28.573	23.553	1.00	27.00	C
ATOM	1596	O	VAL A 225	33.343	28.707	24.291	1.00	26.02	O
ATOM	1597	N	ASP A 226	35.427	27.965	23.946	1.00	27.26	N
ATOM	1598	CA	ASP A 226	35.555	27.505	25.319	1.00	28.37	C
ATOM	1599	CB	ASP A 226	35.210	26.008	25.469	1.00	29.27	C
ATOM	1600	CG	ASP A 226	36.130	25.095	24.689	1.00	30.58	C
ATOM	1601	OD1	ASP A 226	37.361	25.166	24.874	1.00	31.43	O
ATOM	1602	OD2	ASP A 226	35.613	24.283	23.891	1.00	32.27	O
ATOM	1603	C	ASP A 226	36.952	27.818	25.835	1.00	28.68	C
ATOM	1604	O	ASP A 226	37.767	28.418	25.126	1.00	28.29	O
ATOM	1605	N	SER A 227	37.222	27.409	27.067	1.00	29.15	N
ATOM	1606	CA	SER A 227	38.493	27.693	27.730	1.00	30.16	C
ATOM	1607	CB	SER A 227	38.212	28.003	29.200	1.00	30.84	C
ATOM	1608	OG	SER A 227	37.330	29.105	29.315	1.00	33.08	O
ATOM	1609	C	SER A 227	39.568	26.613	27.662	1.00	29.90	C
ATOM	1610	O	SER A 227	40.696	26.833	28.118	1.00	30.24	O
ATOM	1611	N	GLY A 228	39.221	25.467	27.089	1.00	29.54	N
ATOM	1612	CA	GLY A 228	40.133	24.333	27.004	1.00	29.07	C
ATOM	1613	C	GLY A 228	41.586	24.537	26.605	1.00	29.10	C
ATOM	1614	O	GLY A 228	42.494	24.267	27.400	1.00	28.05	O
ATOM	1615	N	ALA A 229	41.810	24.983	25.368	1.00	28.66	N
ATOM	1616	CA	ALA A 229	43.161	25.208	24.868	1.00	28.46	C
ATOM	1617	CB	ALA A 229	43.113	25.634	23.399	1.00	28.89	C
ATOM	1618	C	ALA A 229	43.900	26.257	25.694	1.00	28.23	C
ATOM	1619	O	ALA A 229	45.095	26.127	25.934	1.00	28.75	O
ATOM	1620	N	ALA A 230	43.191	27.290	26.135	1.00	28.21	N
ATOM	1621	CA	ALA A 230	43.820	28.341	26.937	1.00	28.47	C
ATOM	1622	CB	ALA A 230	42.872	29.512	27.106	1.00	28.62	C
ATOM	1623	C	ALA A 230	44.248	27.821	28.309	1.00	29.04	C
ATOM	1624	O	ALA A 230	45.253	28.281	28.871	1.00	28.26	O
ATOM	1625	N	ILE A 231	43.476	26.874	28.850	1.00	28.95	N
ATOM	1626	CA	ILE A 231	43.785	26.281	30.149	1.00	29.12	C
ATOM	1627	CB	ILE A 231	42.651	25.351	30.636	1.00	29.08	C
ATOM	1628	CG2	ILE A 231	43.053	24.671	31.953	1.00	28.24	C
ATOM	1629	CG1	ILE A 231	41.364	26.152	30.804	1.00	29.21	C
ATOM	1630	CD1	ILE A 231	41.467	27.238	31.820	1.00	28.47	C
ATOM	1631	C	ILE A 231	45.035	25.442	29.986	1.00	29.33	C
ATOM	1632	O	ILE A 231	45.915	25.428	30.850	1.00	29.46	O
ATOM	1633	N	ALA A 232	45.097	24.729	28.870	1.00	29.68	N
ATOM	1634	CA	ALA A 232	46.237	23.884	28.566	1.00	30.26	C
ATOM	1635	CB	ALA A 232	46.030	23.206	27.223	1.00	30.00	C
ATOM	1636	C	ALA A 232	47.493	24.764	28.538	1.00	31.19	C
ATOM	1637	O	ALA A 232	48.487	24.458	29.202	1.00	31.16	O
ATOM	1638	N	ARG A 233	47.437	25.863	27.784	1.00	31.62	N

Figure 9DD

ATOM	1639	CA	ARG A 233	48.576	26.776	27.695	1.00	32.55	C
ATOM	1640	CB	ARG A 233	48.273	27.932	26.729	1.00	32.86	C
ATOM	1641	CG	ARG A 233	48.187	27.516	25.259	1.00	32.98	C
ATOM	1642	CD	ARG A 233	48.181	28.745	24.352	1.00	34.06	C
ATOM	1643	NE	ARG A 233	46.982	29.563	24.530	1.00	34.89	N
ATOM	1644	CZ	ARG A 233	45.818	29.316	23.934	1.00	35.40	C
ATOM	1645	NH1	ARG A 233	45.697	28.281	23.115	1.00	35.59	N
ATOM	1646	NH2	ARG A 233	44.770	30.094	24.168	1.00	35.89	N
ATOM	1647	C	ARG A 233	48.952	27.332	29.069	1.00	32.57	C
ATOM	1648	O	ARG A 233	50.129	27.422	29.402	1.00	32.69	O
ATOM	1649	N	ARG A 234	47.957	27.702	29.869	1.00	32.61	N
ATOM	1650	CA	ARG A 234	48.229	28.229	31.206	1.00	32.84	C
ATOM	1651	CB	ARG A 234	46.934	28.713	31.861	1.00	32.78	C
ATOM	1652	CG	ARG A 234	47.107	29.235	33.280	1.00	33.27	C
ATOM	1653	CD	ARG A 234	48.098	30.400	33.357	1.00	33.63	C
ATOM	1654	NE	ARG A 234	48.091	31.010	34.685	1.00	34.67	N
ATOM	1655	CZ	ARG A 234	48.883	32.009	35.060	1.00	34.84	C
ATOM	1656	NH1	ARG A 234	49.759	32.519	34.204	1.00	35.01	N
ATOM	1657	NH2	ARG A 234	48.794	32.502	36.289	1.00	35.15	N
ATOM	1658	C	ARG A 234	48.885	27.155	32.082	1.00	33.23	C
ATOM	1659	O	ARG A 234	49.760	27.458	32.901	1.00	33.10	O
ATOM	1660	N	THR A 235	48.464	25.906	31.897	1.00	32.93	N
ATOM	1661	CA	THR A 235	49.007	24.778	32.652	1.00	33.19	C
ATOM	1662	CB	THR A 235	48.201	23.486	32.368	1.00	32.74	C
ATOM	1663	OG1	THR A 235	46.879	23.637	32.899	1.00	32.01	O
ATOM	1664	CG2	THR A 235	48.867	22.262	33.013	1.00	32.30	C
ATOM	1665	C	THR A 235	50.475	24.564	32.290	1.00	33.74	C
ATOM	1666	O	THR A 235	51.327	24.396	33.170	1.00	33.08	O
ATOM	1667	N	ALA A 236	50.767	24.586	30.993	1.00	34.60	N
ATOM	1668	CA	ALA A 236	52.135	24.415	30.519	1.00	35.65	C
ATOM	1669	CB	ALA A 236	52.163	24.387	28.994	1.00	35.86	C
ATOM	1670	C	ALA A 236	53.021	25.548	31.042	1.00	36.35	C
ATOM	1671	O	ALA A 236	54.180	25.328	31.388	1.00	36.64	O
ATOM	1672	N	TRP A 237	52.480	26.761	31.109	1.00	37.16	N
ATOM	1673	CA	TRP A 237	53.261	27.893	31.599	1.00	38.00	C
ATOM	1674	CB	TRP A 237	52.509	29.208	31.380	1.00	38.98	C
ATOM	1675	CG	TRP A 237	53.355	30.429	31.649	1.00	40.50	C
ATOM	1676	CD2	TRP A 237	53.400	31.199	32.859	1.00	40.98	C
ATOM	1677	CE2	TRP A 237	54.352	32.228	32.667	1.00	41.43	C
ATOM	1678	CE3	TRP A 237	52.730	31.120	34.087	1.00	41.27	C
ATOM	1679	CD1	TRP A 237	54.260	31.006	30.797	1.00	41.31	C
ATOM	1680	NE1	TRP A 237	54.861	32.088	31.402	1.00	41.47	N
ATOM	1681	CZ2	TRP A 237	54.650	33.171	33.659	1.00	41.56	C
ATOM	1682	CZ3	TRP A 237	53.028	32.058	35.075	1.00	41.51	C
ATOM	1683	CH2	TRP A 237	53.980	33.070	34.852	1.00	41.65	C
ATOM	1684	C	TRP A 237	53.573	27.744	33.092	1.00	38.01	C
ATOM	1685	O	TRP A 237	54.687	28.035	33.537	1.00	37.78	O
ATOM	1686	N	LEU A 238	52.585	27.299	33.862	1.00	37.56	N
ATOM	1687	CA	LEU A 238	52.762	27.127	35.299	1.00	37.57	C
ATOM	1688	CB	LEU A 238	51.408	26.902	35.975	1.00	36.67	C
ATOM	1689	CG	LEU A 238	50.478	28.114	35.957	1.00	36.43	C
ATOM	1690	CD1	LEU A 238	49.116	27.731	36.487	1.00	36.24	C
ATOM	1691	CD2	LEU A 238	51.077	29.235	36.794	1.00	36.56	C
ATOM	1692	C	LEU A 238	53.703	25.977	35.622	1.00	37.81	C
ATOM	1693	O	LEU A 238	54.461	26.040	36.591	1.00	37.91	O
ATOM	1694	N	LEU A 239	53.660	24.923	34.819	1.00	38.48	N
ATOM	1695	CA	LEU A 239	54.540	23.791	35.057	1.00	39.58	C
ATOM	1696	CB	LEU A 239	54.163	22.619	34.149	1.00	39.09	C

Figure 9EE

ATOM	1697	CG	LEU A 239	52.839	21.921	34.493	1.00	38.87	C
ATOM	1698	CD1	LEU A 239	52.520	20.870	33.447	1.00	38.45	C
ATOM	1699	CD2	LEU A 239	52.936	21.293	35.881	1.00	38.47	C
ATOM	1700	C	LEU A 239	55.979	24.224	34.791	1.00	40.79	C
ATOM	1701	O	LEU A 239	56.927	23.586	35.249	1.00	40.92	O
ATOM	1702	N	GLU A 240	56.129	25.324	34.060	1.00	41.65	N
ATOM	1703	CA	GLU A 240	57.448	25.837	33.719	1.00	42.84	C
ATOM	1704	CB	GLU A 240	57.444	26.409	32.297	1.00	43.65	C
ATOM	1705	CG	GLU A 240	57.275	25.369	31.200	1.00	45.38	C
ATOM	1706	CD	GLU A 240	58.319	24.268	31.280	1.00	46.58	C
ATOM	1707	OE1	GLU A 240	59.529	24.596	31.325	1.00	47.04	O
ATOM	1708	OE2	GLU A 240	57.929	23.076	31.296	1.00	47.22	O
ATOM	1709	C	GLU A 240	57.961	26.905	34.667	1.00	43.09	C
ATOM	1710	O	GLU A 240	59.150	26.944	34.968	1.00	43.08	O
ATOM	1711	N	HIS A 241	57.069	27.767	35.143	1.00	43.49	N
ATOM	1712	CA	HIS A 241	57.486	28.858	36.011	1.00	44.38	C
ATOM	1713	CB	HIS A 241	57.070	30.186	35.364	1.00	45.65	C
ATOM	1714	CG	HIS A 241	57.586	30.367	33.967	1.00	47.27	C
ATOM	1715	CD2	HIS A 241	58.415	29.604	33.215	1.00	47.86	C
ATOM	1716	ND1	HIS A 241	57.237	31.442	33.178	1.00	47.83	N
ATOM	1717	CE1	HIS A 241	57.825	31.332	32.000	1.00	48.31	C
ATOM	1718	NE2	HIS A 241	58.546	30.225	31.996	1.00	48.70	N
ATOM	1719	C	HIS A 241	57.024	28.846	37.473	1.00	44.07	C
ATOM	1720	O	HIS A 241	57.400	29.741	38.232	1.00	44.13	O
ATOM	1721	N	GLU A 242	56.236	27.853	37.886	1.00	43.53	N
ATOM	1722	CA	GLU A 242	55.754	27.839	39.269	1.00	42.98	C
ATOM	1723	CB	GLU A 242	54.421	28.589	39.359	1.00	43.70	C
ATOM	1724	CG	GLU A 242	54.522	30.087	39.173	1.00	44.78	C
ATOM	1725	CD	GLU A 242	53.167	30.759	39.210	1.00	45.69	C
ATOM	1726	OE1	GLU A 242	52.341	30.397	40.081	1.00	45.73	O
ATOM	1727	OE2	GLU A 242	52.930	31.658	38.375	1.00	46.45	O
ATOM	1728	C	GLU A 242	55.578	26.498	39.977	1.00	42.31	C
ATOM	1729	O	GLU A 242	55.680	26.430	41.200	1.00	42.11	O
ATOM	1730	N	ALA A 243	55.306	25.439	39.224	1.00	41.35	N
ATOM	1731	CA	ALA A 243	55.072	24.127	39.820	1.00	40.63	C
ATOM	1732	CB	ALA A 243	54.557	23.163	38.758	1.00	40.62	C
ATOM	1733	C	ALA A 243	56.262	23.498	40.540	1.00	40.38	C
ATOM	1734	O	ALA A 243	57.382	23.480	40.025	1.00	39.78	O
ATOM	1735	N	PRO A 244	56.028	22.970	41.753	1.00	39.91	N
ATOM	1736	CD	PRO A 244	54.781	23.031	42.540	1.00	39.77	C
ATOM	1737	CA	PRO A 244	57.102	22.331	42.518	1.00	39.80	C
ATOM	1738	CB	PRO A 244	56.495	22.194	43.914	1.00	39.91	C
ATOM	1739	CG	PRO A 244	55.026	21.998	43.617	1.00	39.75	C
ATOM	1740	C	PRO A 244	57.415	20.982	41.875	1.00	39.90	C
ATOM	1741	O	PRO A 244	56.603	20.452	41.114	1.00	39.34	O
ATOM	1742	N	ASP A 245	58.588	20.431	42.176	1.00	40.00	N
ATOM	1743	CA	ASP A 245	59.011	19.149	41.615	1.00	40.24	C
ATOM	1744	CB	ASP A 245	60.516	18.947	41.853	1.00	41.09	C
ATOM	1745	CG	ASP A 245	61.071	17.750	41.102	1.00	41.84	C
ATOM	1746	OD1	ASP A 245	62.133	17.226	41.501	1.00	42.48	O
ATOM	1747	OD2	ASP A 245	60.455	17.334	40.100	1.00	42.69	O
ATOM	1748	C	ASP A 245	58.245	17.957	42.193	1.00	40.06	C
ATOM	1749	O	ASP A 245	58.817	17.131	42.907	1.00	40.25	O
ATOM	1750	N	ALA A 246	56.954	17.864	41.882	1.00	39.77	N
ATOM	1751	CA	ALA A 246	56.121	16.765	42.364	1.00	39.54	C
ATOM	1752	CB	ALA A 246	54.836	17.313	42.982	1.00	39.39	C
ATOM	1753	C	ALA A 246	55.796	15.857	41.182	1.00	39.56	C
ATOM	1754	O	ALA A 246	54.964	16.194	40.338	1.00	39.19	O

Figure 9FF

ATOM	1755	N	LYS A 247	56.446	14.699	41.129	1.00	39.47	N
ATOM	1756	CA	LYS A 247	56.245	13.771	40.024	1.00	39.58	C
ATOM	1757	CB	LYS A 247	57.416	13.892	39.049	1.00	40.22	C
ATOM	1758	CG	LYS A 247	58.777	13.707	39.705	1.00	41.70	C
ATOM	1759	CD	LYS A 247	59.910	13.916	38.706	1.00	43.00	C
ATOM	1760	CE	LYS A 247	61.266	13.866	39.394	1.00	43.78	C
ATOM	1761	NZ	LYS A 247	61.482	12.561	40.080	1.00	45.10	N
ATOM	1762	C	LYS A 247	56.097	12.317	40.450	1.00	39.34	C
ATOM	1763	O	LYS A 247	56.453	11.941	41.564	1.00	39.51	O
ATOM	1764	N	SER A 248	55.583	11.499	39.539	1.00	38.98	N
ATOM	1765	CA	SER A 248	55.385	10.082	39.793	1.00	38.69	C
ATOM	1766	CB	SER A 248	54.009	9.856	40.435	1.00	38.62	C
ATOM	1767	OG	SER A 248	53.728	8.479	40.587	1.00	38.23	O
ATOM	1768	C	SER A 248	55.487	9.286	38.492	1.00	38.63	C
ATOM	1769	O	SER A 248	55.262	9.820	37.405	1.00	38.34	O
ATOM	1770	N	ALA A 249	55.830	8.007	38.609	1.00	38.50	N
ATOM	1771	CA	ALA A 249	55.941	7.150	37.438	1.00	38.58	C
ATOM	1772	CB	ALA A 249	57.195	6.275	37.536	1.00	38.58	C
ATOM	1773	C	ALA A 249	54.691	6.281	37.308	1.00	38.38	C
ATOM	1774	O	ALA A 249	54.529	5.558	36.326	1.00	38.36	O
ATOM	1775	N	ASP A 250	53.805	6.357	38.299	1.00	38.17	N
ATOM	1776	CA	ASP A 250	52.572	5.576	38.269	1.00	37.75	C
ATOM	1777	CB	ASP A 250	51.765	5.767	39.562	1.00	38.49	C
ATOM	1778	CG	ASP A 250	52.435	5.136	40.773	1.00	39.62	C
ATOM	1779	OD1	ASP A 250	53.432	4.403	40.593	1.00	40.12	O
ATOM	1780	OD2	ASP A 250	51.960	5.365	41.909	1.00	39.88	O
ATOM	1781	C	ASP A 250	51.722	5.995	37.076	1.00	36.87	C
ATOM	1782	O	ASP A 250	51.859	7.106	36.563	1.00	37.25	O
ATOM	1783	N	ALA A 251	50.845	5.100	36.636	1.00	36.01	N
ATOM	1784	CA	ALA A 251	49.971	5.379	35.504	1.00	34.97	C
ATOM	1785	CB	ALA A 251	49.359	4.086	34.990	1.00	35.52	C
ATOM	1786	C	ALA A 251	48.868	6.349	35.918	1.00	33.97	C
ATOM	1787	O	ALA A 251	48.624	6.547	37.107	1.00	33.63	O
ATOM	1788	N	ASN A 252	48.206	6.948	34.933	1.00	32.74	N
ATOM	1789	CA	ASN A 252	47.131	7.894	35.204	1.00	31.53	C
ATOM	1790	CB	ASN A 252	46.550	8.451	33.903	1.00	31.29	C
ATOM	1791	CG	ASN A 252	47.583	9.156	33.059	1.00	31.11	C
ATOM	1792	OD1	ASN A 252	48.532	9.745	33.580	1.00	30.92	O
ATOM	1793	ND2	ASN A 252	47.397	9.118	31.747	1.00	31.17	N
ATOM	1794	C	ASN A 252	46.025	7.202	35.983	1.00	30.57	C
ATOM	1795	O	ASN A 252	45.737	6.032	35.755	1.00	30.37	O
ATOM	1796	N	ILE A 253	45.398	7.929	36.896	1.00	29.76	N
ATOM	1797	CA	ILE A 253	44.331	7.340	37.694	1.00	29.03	C
ATOM	1798	CB	ILE A 253	44.880	6.919	39.080	1.00	29.45	C
ATOM	1799	CG2	ILE A 253	45.374	8.139	39.833	1.00	29.70	C
ATOM	1800	CG1	ILE A 253	43.802	6.198	39.888	1.00	30.29	C
ATOM	1801	CD1	ILE A 253	44.292	5.736	41.244	1.00	31.33	C
ATOM	1802	C	ILE A 253	43.141	8.286	37.875	1.00	28.11	C
ATOM	1803	O	ILE A 253	43.297	9.512	37.893	1.00	27.59	O
ATOM	1804	N	ALA A 254	41.948	7.705	37.979	1.00	26.97	N
ATOM	1805	CA	ALA A 254	40.733	8.479	38.183	1.00	25.96	C
ATOM	1806	CB	ALA A 254	39.685	8.123	37.125	1.00	25.54	C
ATOM	1807	C	ALA A 254	40.200	8.167	39.578	1.00	25.64	C
ATOM	1808	O	ALA A 254	40.217	7.010	40.013	1.00	25.40	O
ATOM	1809	N	PHE A 255	39.749	9.203	40.276	1.00	24.93	N
ATOM	1810	CA	PHE A 255	39.188	9.061	41.619	1.00	25.25	C
ATOM	1811	CB	PHE A 255	39.931	9.936	42.633	1.00	24.82	C
ATOM	1812	CG	PHE A 255	41.278	9.416	43.044	1.00	25.59	C

Figure 9GG

ATOM	1813	CD1 PHE A 255	42.399	10.235	42.953	1.00	25.46	C
ATOM	1814	CD2 PHE A 255	41.422	8.132	43.559	1.00	26.01	C
ATOM	1815	CE1 PHE A 255	43.650	9.789	43.368	1.00	26.29	C
ATOM	1816	CE2 PHE A 255	42.671	7.668	43.982	1.00	26.91	C
ATOM	1817	CZ PHE A 255	43.790	8.500	43.884	1.00	26.72	C
ATOM	1818	C PHE A 255	37.726	9.503	41.663	1.00	25.33	C
ATOM	1819	O PHE A 255	37.370	10.562	41.140	1.00	25.42	O
ATOM	1820	N CYS A 256	36.874	8.698	42.284	1.00	25.82	N
ATOM	1821	CA CYS A 256	35.482	9.099	42.462	1.00	26.46	C
ATOM	1822	CB CYS A 256	34.512	8.041	41.920	1.00	27.23	C
ATOM	1823	SG CYS A 256	34.653	6.407	42.664	1.00	29.02	S
ATOM	1824	C CYS A 256	35.364	9.237	43.983	1.00	26.79	C
ATOM	1825	O CYS A 256	36.246	8.775	44.715	1.00	26.33	O
ATOM	1826	N MET A 257	34.308	9.877	44.475	1.00	27.23	N
ATOM	1827	CA MET A 257	34.174	10.030	45.924	1.00	27.99	C
ATOM	1828	CB MET A 257	33.566	11.395	46.270	1.00	28.01	C
ATOM	1829	CG MET A 257	34.365	12.586	45.730	1.00	28.41	C
ATOM	1830	SD MET A 257	36.165	12.503	46.030	1.00	29.78	S
ATOM	1831	CE MET A 257	36.802	12.840	44.372	1.00	29.70	C
ATOM	1832	C MET A 257	33.343	8.903	46.536	1.00	28.39	C
ATOM	1833	O MET A 257	33.310	8.733	47.754	1.00	28.39	O
ATOM	1834	N ALA A 258	32.691	8.128	45.679	1.00	29.08	N
ATOM	1835	CA ALA A 258	31.880	6.999	46.117	1.00	30.02	C
ATOM	1836	CB ALA A 258	30.474	7.460	46.494	1.00	29.75	C
ATOM	1837	C ALA A 258	31.814	6.007	44.969	1.00	30.76	C
ATOM	1838	O ALA A 258	31.509	6.379	43.837	1.00	30.44	O
ATOM	1839	N MET A 259	32.111	4.747	45.259	1.00	31.73	N
ATOM	1840	CA MET A 259	32.084	3.712	44.236	1.00	32.90	C
ATOM	1841	CB MET A 259	32.945	2.527	44.675	1.00	34.30	C
ATOM	1842	CG MET A 259	33.303	1.566	43.559	1.00	36.54	C
ATOM	1843	SD MET A 259	34.242	2.358	42.237	1.00	38.48	S
ATOM	1844	CE MET A 259	35.844	2.502	42.974	1.00	37.84	C
ATOM	1845	C MET A 259	30.638	3.283	44.029	1.00	33.14	C
ATOM	1846	O MET A 259	30.189	2.272	44.569	1.00	33.45	O
ATOM	1847	N THR A 260	29.912	4.076	43.250	1.00	32.81	N
ATOM	1848	CA THR A 260	28.509	3.827	42.955	1.00	32.55	C
ATOM	1849	CB THR A 260	27.706	5.132	42.987	1.00	32.69	C
ATOM	1850	OG1 THR A 260	28.140	5.973	41.907	1.00	32.32	O
ATOM	1851	CG2 THR A 260	27.911	5.857	44.304	1.00	32.38	C
ATOM	1852	C THR A 260	28.362	3.260	41.551	1.00	32.45	C
ATOM	1853	O THR A 260	29.311	3.264	40.765	1.00	32.43	O
ATOM	1854	N PRO A 261	27.165	2.765	41.212	1.00	32.43	N
ATOM	1855	CD PRO A 261	26.012	2.408	42.064	1.00	32.73	C
ATOM	1856	CA PRO A 261	27.002	2.227	39.862	1.00	32.04	C
ATOM	1857	CB PRO A 261	25.559	1.726	39.864	1.00	32.40	C
ATOM	1858	CG PRO A 261	25.383	1.268	41.293	1.00	32.56	C
ATOM	1859	C PRO A 261	27.244	3.333	38.835	1.00	31.88	C
ATOM	1860	O PRO A 261	27.850	3.096	37.796	1.00	31.83	O
ATOM	1861	N GLY A 262	26.779	4.545	39.139	1.00	31.39	N
ATOM	1862	CA GLY A 262	26.971	5.660	38.225	1.00	30.93	C
ATOM	1863	C GLY A 262	28.439	5.941	37.935	1.00	30.03	C
ATOM	1864	O GLY A 262	28.831	6.103	36.782	1.00	30.46	O
ATOM	1865	N ALA A 263	29.254	6.003	38.980	1.00	29.43	N
ATOM	1866	CA ALA A 263	30.678	6.248	38.816	1.00	28.87	C
ATOM	1867	CB ALA A 263	31.342	6.409	40.178	1.00	28.90	C
ATOM	1868	C ALA A 263	31.329	5.099	38.052	1.00	28.88	C
ATOM	1869	O ALA A 263	32.162	5.314	37.170	1.00	28.36	O
ATOM	1870	N GLU A 264	30.944	3.874	38.396	1.00	28.76	N

Figure 9HH

ATOM	1871	CA	GLU A 264	31.505	2.691	37.752	1.00	29.21	C
ATOM	1872	CB	GLU A 264	30.980	1.432	38.457	1.00	29.05	C
ATOM	1873	CG	GLU A 264	31.358	1.396	39.931	1.00	29.36	C
ATOM	1874	CD	GLU A 264	30.506	0.450	40.767	1.00	29.84	C
ATOM	1875	OE1	GLU A 264	29.389	0.097	40.345	1.00	29.77	O
ATOM	1876	OE2	GLU A 264	30.955	0.080	41.870	1.00	30.70	O
ATOM	1877	C	GLU A 264	31.187	2.662	36.258	1.00	29.35	C
ATOM	1878	O	GLU A 264	32.006	2.220	35.451	1.00	29.37	O
ATOM	1879	N	GLN A 265	30.010	3.157	35.892	1.00	29.70	N
ATOM	1880	CA	GLN A 265	29.601	3.179	34.495	1.00	30.44	C
ATOM	1881	CB	GLN A 265	28.137	3.606	34.381	1.00	31.82	C
ATOM	1882	CG	GLN A 265	27.210	2.667	35.117	1.00	35.27	C
ATOM	1883	CD	GLN A 265	25.751	3.021	34.954	1.00	37.03	C
ATOM	1884	OE1	GLN A 265	24.889	2.428	35.607	1.00	39.00	O
ATOM	1885	NE2	GLN A 265	25.459	3.984	34.078	1.00	38.41	N
ATOM	1886	C	GLN A 265	30.474	4.076	33.621	1.00	29.94	C
ATOM	1887	O	GLN A 265	30.392	4.015	32.396	1.00	29.87	O
ATOM	1888	N	LEU A 266	31.299	4.906	34.247	1.00	29.15	N
ATOM	1889	CA	LEU A 266	32.198	5.791	33.506	1.00	29.01	C
ATOM	1890	CB	LEU A 266	32.496	7.055	34.318	1.00	28.73	C
ATOM	1891	CG	LEU A 266	31.367	8.075	34.425	1.00	29.05	C
ATOM	1892	CD1	LEU A 266	31.842	9.274	35.237	1.00	28.78	C
ATOM	1893	CD2	LEU A 266	30.937	8.502	33.024	1.00	28.78	C
ATOM	1894	C	LEU A 266	33.523	5.113	33.169	1.00	28.86	C
ATOM	1895	O	LEU A 266	34.319	5.643	32.386	1.00	28.44	O
ATOM	1896	N	LEU A 267	33.757	3.939	33.751	1.00	28.56	N
ATOM	1897	CA	LEU A 267	35.010	3.232	33.533	1.00	28.80	C
ATOM	1898	CB	LEU A 267	34.943	1.824	34.133	1.00	29.49	C
ATOM	1899	CG	LEU A 267	36.275	1.073	34.136	1.00	29.76	C
ATOM	1900	CD1	LEU A 267	37.305	1.829	34.979	1.00	29.91	C
ATOM	1901	CD2	LEU A 267	36.058	-0.329	34.700	1.00	30.42	C
ATOM	1902	C	LEU A 267	35.483	3.150	32.080	1.00	28.65	C
ATOM	1903	O	LEU A 267	36.609	3.529	31.782	1.00	28.27	O
ATOM	1904	N	PRO A 268	34.635	2.655	31.161	1.00	28.76	N
ATOM	1905	CD	PRO A 268	33.250	2.185	31.327	1.00	29.21	C
ATOM	1906	CA	PRO A 268	35.058	2.559	29.759	1.00	29.10	C
ATOM	1907	CB	PRO A 268	33.849	1.920	29.074	1.00	29.23	C
ATOM	1908	CG	PRO A 268	32.695	2.343	29.937	1.00	29.74	C
ATOM	1909	C	PRO A 268	35.470	3.902	29.135	1.00	29.03	C
ATOM	1910	O	PRO A 268	36.458	3.971	28.408	1.00	28.44	O
ATOM	1911	N	VAL A 269	34.719	4.961	29.422	1.00	29.23	N
ATOM	1912	CA	VAL A 269	35.045	6.283	28.885	1.00	29.50	C
ATOM	1913	CB	VAL A 269	33.888	7.279	29.118	1.00	30.12	C
ATOM	1914	CG1	VAL A 269	34.278	8.681	28.649	1.00	31.29	C
ATOM	1915	CG2	VAL A 269	32.667	6.812	28.338	1.00	31.48	C
ATOM	1916	C	VAL A 269	36.328	6.791	29.536	1.00	29.16	C
ATOM	1917	O	VAL A 269	37.220	7.299	28.852	1.00	29.31	O
ATOM	1918	N	LEU A 270	36.438	6.635	30.853	1.00	28.36	N
ATOM	1919	CA	LEU A 270	37.640	7.062	31.547	1.00	28.07	C
ATOM	1920	CB	LEU A 270	37.531	6.749	33.048	1.00	27.79	C
ATOM	1921	CG	LEU A 270	36.555	7.621	33.858	1.00	27.73	C
ATOM	1922	CD1	LEU A 270	36.423	7.075	35.273	1.00	26.65	C
ATOM	1923	CD2	LEU A 270	37.060	9.062	33.893	1.00	27.37	C
ATOM	1924	C	LEU A 270	38.859	6.358	30.942	1.00	28.42	C
ATOM	1925	O	LEU A 270	39.918	6.968	30.759	1.00	28.07	O
ATOM	1926	N	GLN A 271	38.706	5.075	30.620	1.00	28.62	N
ATOM	1927	CA	GLN A 271	39.803	4.309	30.036	1.00	29.58	C
ATOM	1928	CB	GLN A 271	39.446	2.815	30.009	1.00	29.77	C

Figure 9II

ATOM	1929	CG	GLN A 271	39.562	2.171	31.395	1.00	29.56	C
ATOM	1930	CD	GLN A 271	39.100	0.719	31.441	1.00	30.15	C
ATOM	1931	OE1	GLN A 271	39.476	-0.030	32.346	1.00	30.14	O
ATOM	1932	NE2	GLN A 271	38.276	0.322	30.480	1.00	29.92	N
ATOM	1933	C	GLN A 271	40.154	4.831	28.641	1.00	30.09	C
ATOM	1934	O	GLN A 271	41.333	4.935	28.298	1.00	30.05	O
ATOM	1935	N	ARG A 272	39.139	5.173	27.850	1.00	30.62	N
ATOM	1936	CA	ARG A 272	39.372	5.733	26.519	1.00	32.09	C
ATOM	1937	CB	ARG A 272	38.051	5.959	25.769	1.00	33.56	C
ATOM	1938	CG	ARG A 272	37.497	4.712	25.080	1.00	36.87	C
ATOM	1939	CD	ARG A 272	36.510	5.071	23.966	1.00	39.07	C
ATOM	1940	NE	ARG A 272	35.236	5.575	24.474	1.00	41.31	N
ATOM	1941	CZ	ARG A 272	34.331	4.826	25.101	1.00	42.35	C
ATOM	1942	NH1	ARG A 272	34.557	3.529	25.295	1.00	42.99	N
ATOM	1943	NH2	ARG A 272	33.201	5.372	25.538	1.00	42.53	N
ATOM	1944	C	ARG A 272	40.119	7.066	26.646	1.00	31.71	C
ATOM	1945	O	ARG A 272	40.888	7.441	25.758	1.00	31.85	O
ATOM	1946	N	TYR A 273	39.892	7.775	27.751	1.00	31.12	N
ATOM	1947	CA	TYR A 273	40.560	9.053	27.996	1.00	30.49	C
ATOM	1948	CB	TYR A 273	39.764	9.912	28.988	1.00	30.13	C
ATOM	1949	CG	TYR A 273	38.764	10.843	28.338	1.00	30.08	C
ATOM	1950	CD1	TYR A 273	37.423	10.485	28.209	1.00	30.27	C
ATOM	1951	CE1	TYR A 273	36.506	11.337	27.600	1.00	30.56	C
ATOM	1952	CD2	TYR A 273	39.165	12.084	27.840	1.00	30.11	C
ATOM	1953	CE2	TYR A 273	38.257	12.944	27.231	1.00	30.62	C
ATOM	1954	CZ	TYR A 273	36.932	12.566	27.113	1.00	31.12	C
ATOM	1955	OH	TYR A 273	36.035	13.413	26.506	1.00	31.48	O
ATOM	1956	C	TYR A 273	41.992	8.902	28.510	1.00	30.66	C
ATOM	1957	O	TYR A 273	42.738	9.878	28.577	1.00	30.68	O
ATOM	1958	N	GLY A 274	42.383	7.687	28.879	1.00	30.61	N
ATOM	1959	CA	GLY A 274	43.740	7.489	29.356	1.00	30.77	C
ATOM	1960	C	GLY A 274	43.881	7.150	30.830	1.00	31.11	C
ATOM	1961	O	GLY A 274	44.991	7.138	31.358	1.00	30.91	O
ATOM	1962	N	PHE A 275	42.766	6.888	31.503	1.00	31.47	N
ATOM	1963	CA	PHE A 275	42.810	6.527	32.918	1.00	32.19	C
ATOM	1964	CB	PHE A 275	41.801	7.348	33.728	1.00	31.21	C
ATOM	1965	CG	PHE A 275	42.032	8.831	33.653	1.00	30.69	C
ATOM	1966	CD1	PHE A 275	41.342	9.611	32.729	1.00	30.41	C
ATOM	1967	CD2	PHE A 275	42.970	9.441	34.477	1.00	29.75	C
ATOM	1968	CE1	PHE A 275	41.587	10.983	32.624	1.00	30.10	C
ATOM	1969	CE2	PHE A 275	43.223	10.809	34.382	1.00	30.33	C
ATOM	1970	CZ	PHE A 275	42.529	11.582	33.451	1.00	30.15	C
ATOM	1971	C	PHE A 275	42.471	5.048	33.007	1.00	33.19	C
ATOM	1972	O	PHE A 275	41.321	4.655	32.821	1.00	33.75	O
ATOM	1973	N	GLU A 276	43.484	4.234	33.277	1.00	34.59	N
ATOM	1974	CA	GLU A 276	43.310	2.789	33.361	1.00	36.07	C
ATOM	1975	CB	GLU A 276	44.675	2.103	33.438	1.00	37.83	C
ATOM	1976	CG	GLU A 276	45.583	2.659	34.528	1.00	39.84	C
ATOM	1977	CD	GLU A 276	46.443	1.587	35.173	1.00	41.24	C
ATOM	1978	OE1	GLU A 276	46.984	0.727	34.439	1.00	42.52	O
ATOM	1979	OE2	GLU A 276	46.588	1.607	36.415	1.00	41.91	O
ATOM	1980	C	GLU A 276	42.478	2.336	34.544	1.00	35.79	C
ATOM	1981	O	GLU A 276	41.703	1.381	34.442	1.00	35.99	O
ATOM	1982	N	THR A 277	42.632	3.035	35.662	1.00	35.29	N
ATOM	1983	CA	THR A 277	41.938	2.665	36.885	1.00	35.33	C
ATOM	1984	CB	THR A 277	42.976	2.238	37.953	1.00	35.95	C
ATOM	1985	OG1	THR A 277	43.827	1.222	37.404	1.00	37.35	O
ATOM	1986	CG2	THR A 277	42.292	1.707	39.198	1.00	36.44	C

Figure 9JJ

ATOM	1987	C	THR A 277	41.056	3.753	37.487	1.00	34.38	C
ATOM	1988	O	THR A 277	41.325	4.946	37.339	1.00	33.90	O
ATOM	1989	N	LEU A 278	39.999	3.309	38.162	1.00	33.42	N
ATOM	1990	CA	LEU A 278	39.063	4.180	38.860	1.00	32.84	C
ATOM	1991	CB	LEU A 278	37.660	4.078	38.261	1.00	32.25	C
ATOM	1992	CG	LEU A 278	36.557	4.754	39.080	1.00	31.65	C
ATOM	1993	CD1	LEU A 278	36.739	6.269	39.067	1.00	31.85	C
ATOM	1994	CD2	LEU A 278	35.204	4.385	38.506	1.00	32.00	C
ATOM	1995	C	LEU A 278	39.029	3.683	40.301	1.00	32.90	C
ATOM	1996	O	LEU A 278	38.696	2.523	40.551	1.00	32.50	O
ATOM	1997	N	GLU A 279	39.390	4.549	41.242	1.00	32.79	N
ATOM	1998	CA	GLU A 279	39.390	4.191	42.657	1.00	33.18	C
ATOM	1999	CB	GLU A 279	40.821	4.141	43.212	1.00	33.85	C
ATOM	2000	CG	GLU A 279	41.704	3.034	42.652	1.00	34.93	C
ATOM	2001	CD	GLU A 279	43.103	3.054	43.243	1.00	35.80	C
ATOM	2002	OE1	GLU A 279	43.990	2.345	42.711	1.00	37.17	O
ATOM	2003	OE2	GLU A 279	43.323	3.773	44.242	1.00	35.89	O
ATOM	2004	C	GLU A 279	38.596	5.205	43.472	1.00	33.21	C
ATOM	2005	O	GLU A 279	38.373	6.340	43.037	1.00	31.95	O
ATOM	2006	N	LYS A 280	38.173	4.786	44.660	1.00	33.51	N
ATOM	2007	CA	LYS A 280	37.438	5.666	45.550	1.00	34.17	C
ATOM	2008	CB	LYS A 280	36.529	4.868	46.489	1.00	34.76	C
ATOM	2009	CG	LYS A 280	35.955	5.721	47.620	1.00	35.25	C
ATOM	2010	CD	LYS A 280	34.963	4.950	48.463	1.00	36.16	C
ATOM	2011	CE	LYS A 280	34.444	5.796	49.618	1.00	36.76	C
ATOM	2012	NZ	LYS A 280	33.323	5.103	50.330	1.00	37.23	N
ATOM	2013	C	LYS A 280	38.437	6.456	46.382	1.00	34.45	C
ATOM	2014	O	LYS A 280	39.405	5.901	46.896	1.00	34.38	O
ATOM	2015	N	LEU A 281	38.204	7.756	46.503	1.00	34.75	N
ATOM	2016	CA	LEU A 281	39.079	8.605	47.293	1.00	35.65	C
ATOM	2017	CB	LEU A 281	39.370	9.908	46.550	1.00	35.08	C
ATOM	2018	CG	LEU A 281	40.280	10.898	47.278	1.00	34.82	C
ATOM	2019	CD1	LEU A 281	41.691	10.337	47.360	1.00	34.07	C
ATOM	2020	CD2	LEU A 281	40.273	12.230	46.537	1.00	34.40	C
ATOM	2021	C	LEU A 281	38.392	8.920	48.618	1.00	36.70	C
ATOM	2022	O	LEU A 281	37.230	9.325	48.635	1.00	36.57	O
ATOM	2023	N	ALA A 282	39.105	8.726	49.722	1.00	37.88	N
ATOM	2024	CA	ALA A 282	38.551	9.008	51.045	1.00	39.41	C
ATOM	2025	CB	ALA A 282	39.297	8.204	52.111	1.00	39.19	C
ATOM	2026	C	ALA A 282	38.687	10.501	51.327	1.00	40.14	C
ATOM	2027	O	ALA A 282	39.798	11.023	51.394	1.00	40.34	O
ATOM	2028	N	VAL A 283	37.556	11.179	51.500	1.00	41.23	N
ATOM	2029	CA	VAL A 283	37.550	12.617	51.757	1.00	42.40	C
ATOM	2030	CB	VAL A 283	36.640	13.340	50.746	1.00	42.15	C
ATOM	2031	CG1	VAL A 283	36.654	14.834	51.008	1.00	42.12	C
ATOM	2032	CG2	VAL A 283	37.097	13.037	49.330	1.00	42.22	C
ATOM	2033	C	VAL A 283	37.073	12.974	53.168	1.00	43.56	C
ATOM	2034	O	VAL A 283	36.188	12.315	53.718	1.00	43.82	O
ATOM	2035	N	LEU A 284	37.658	14.025	53.743	1.00	44.69	N
ATOM	2036	CA	LEU A 284	37.290	14.488	55.084	1.00	45.88	C
ATOM	2037	CB	LEU A 284	38.534	14.635	55.968	1.00	46.17	C
ATOM	2038	CG	LEU A 284	39.537	13.487	56.073	1.00	46.66	C
ATOM	2039	CD1	LEU A 284	40.567	13.830	57.143	1.00	46.97	C
ATOM	2040	CD2	LEU A 284	38.822	12.191	56.420	1.00	46.95	C
ATOM	2041	C	LEU A 284	36.591	15.844	55.006	1.00	46.59	C
ATOM	2042	O	LEU A 284	36.980	16.790	55.699	1.00	47.10	O
ATOM	2043	N	GLY A 285	35.567	15.945	54.165	1.00	47.04	N
ATOM	2044	CA	GLY A 285	34.858	17.204	54.025	1.00	47.76	C

Figure 9KK

ATOM	2045	C	GLY A 285	33.866	17.240	52.875	1.00	47.90	C
ATOM	2046	O	GLY A 285	32.783	17.840	53.035	1.00	48.58	O
ATOM	2047	OXT	GLY A 285	34.176	16.690	51.803	1.00	48.12	O
ATOM	2058	N1	UMA G 1	41.035	30.895	30.822	1.00	29.94	N
ATOM	2059	C2	UMA G 1	40.620	30.440	32.173	1.00	29.32	C
ATOM	2060	N3	UMA G 1	41.658	30.174	33.053	1.00	29.55	N
ATOM	2061	C4	UMA G 1	43.027	30.300	32.772	1.00	29.59	C
ATOM	2062	C5	UMA G 1	43.381	30.771	31.368	1.00	29.56	C
ATOM	2063	C6	UMA G 1	42.392	31.034	30.490	1.00	29.26	C
ATOM	2064	O2	UMA G 1	39.456	30.295	32.514	1.00	29.70	O
ATOM	2065	O4	UMA G 1	43.849	30.029	33.635	1.00	30.57	O
ATOM	2066	C31	UMA G 1	39.920	31.186	29.853	1.00	29.97	C
ATOM	2067	C32	UMA G 1	39.372	32.587	30.063	1.00	30.33	C
ATOM	2068	O32	UMA G 1	37.898	32.677	29.950	1.00	29.77	O
ATOM	2069	C33	UMA G 1	40.048	33.494	29.089	1.00	30.56	C
ATOM	2070	C34	UMA G 1	40.197	32.516	27.939	1.00	31.30	C
ATOM	2071	O34	UMA G 1	40.333	31.219	28.508	1.00	30.67	O
ATOM	2072	O33	UMA G 1	39.089	34.568	28.897	1.00	31.06	O
ATOM	2073	C35	UMA G 1	41.382	32.735	27.086	1.00	31.78	C
ATOM	2074	O35	UMA G 1	42.506	32.919	27.871	1.00	33.40	O
ATOM	2075	PA	UMA G 1	43.918	33.371	27.296	1.00	34.79	P
ATOM	2076	O1A	UMA G 1	44.873	32.987	28.345	1.00	34.47	O
ATOM	2077	O2A	UMA G 1	44.116	32.774	26.015	1.00	33.73	O
ATOM	2078	O3A	UMA G 1	43.778	34.985	27.253	1.00	35.18	O
ATOM	2079	PB	UMA G 1	42.692	36.010	27.815	1.00	37.02	P
ATOM	2080	O1B	UMA G 1	41.390	35.816	27.213	1.00	36.86	O
ATOM	2081	O2B	UMA G 1	43.287	37.349	27.763	1.00	37.25	O
ATOM	2082	O1'	UMA G 1	42.711	35.593	29.403	1.00	37.25	O
ATOM	2083	C1'	UMA G 1	43.283	36.339	30.478	1.00	37.93	C
ATOM	2084	C2'	UMA G 1	43.951	35.442	31.486	1.00	38.46	C
ATOM	2085	N2'	UMA G 1	45.067	34.682	30.893	1.00	38.63	N
ATOM	2086	C7'	UMA G 1	46.346	34.910	31.235	1.00	39.00	C
ATOM	2087	O7'	UMA G 1	46.649	35.638	32.176	1.00	39.50	O
ATOM	2088	C8'	UMA G 1	47.443	34.229	30.444	1.00	39.26	C
ATOM	2089	C3'	UMA G 1	42.883	34.508	32.080	1.00	38.65	C
ATOM	2090	O3'	UMA G 1	43.460	33.671	33.140	1.00	39.05	O
ATOM	2091	C4'	UMA G 1	41.697	35.312	32.664	1.00	38.99	C
ATOM	2092	O4'	UMA G 1	40.704	34.446	33.176	1.00	39.14	O
ATOM	2093	C5'	UMA G 1	41.102	36.223	31.586	1.00	39.08	C
ATOM	2094	O5'	UMA G 1	42.179	37.085	31.056	1.00	38.34	O
ATOM	2095	C6'	UMA G 1	40.020	37.154	32.103	1.00	39.49	C
ATOM	2096	O6'	UMA G 1	40.509	37.913	33.199	1.00	40.33	O
ATOM	2097	C18	UMA G 1	44.249	34.079	34.286	1.00	39.32	C
ATOM	2098	C19	UMA G 1	43.455	34.233	35.541	1.00	39.68	C
ATOM	2099	O18	UMA G 1	43.782	35.035	36.398	1.00	40.46	O
ATOM	2100	C20	UMA G 1	45.493	33.170	34.364	1.00	39.34	C
ATOM	2101	N4	UMA G 1	42.384	33.428	35.636	1.00	39.52	N
ATOM	2102	C21	UMA G 1	41.528	33.276	36.821	1.00	39.62	C
ATOM	2103	C22	UMA G 1	42.290	32.995	38.151	1.00	39.22	C
ATOM	2104	O19	UMA G 1	43.372	32.371	38.070	1.00	39.54	O
ATOM	2105	O20	UMA G 1	41.806	33.412	39.234	1.00	39.22	O
ATOM	2106	C23	UMA G 1	40.511	32.156	36.571	1.00	39.39	C
ATOM	2107	OH2	WAT S 1	28.597	26.858	34.170	1.00	35.33	O
ATOM	2108	OH2	WAT S 2	39.874	15.622	52.951	1.00	27.02	O
ATOM	2109	OH2	WAT S 3	47.806	29.582	41.793	1.00	26.82	O
ATOM	2110	OH2	WAT S 4	32.712	12.071	49.955	1.00	33.48	O
ATOM	2111	OH2	WAT S 5	34.388	29.141	28.290	1.00	23.66	O
ATOM	2112	OH2	WAT S 6	29.860	12.057	36.929	1.00	28.75	O

Figure 9LL

ATOM	2113	OH2	WAT S	7	18.596	31.078	31.314	1.00	34.56	O
ATOM	2114	OH2	WAT S	8	43.746	30.135	36.454	1.00	31.70	O
ATOM	2115	OH2	WAT S	9	40.710	28.228	24.786	1.00	32.34	O
ATOM	2116	OH2	WAT S	10	40.249	20.233	54.144	1.00	31.31	O
ATOM	2117	OH2	WAT S	11	50.729	22.205	49.175	1.00	29.78	O
ATOM	2118	OH2	WAT S	12	36.244	25.185	28.517	1.00	31.80	O
ATOM	2119	OH2	WAT S	13	29.586	1.690	31.020	1.00	35.67	O
ATOM	2120	OH2	WAT S	14	27.347	8.426	41.609	1.00	33.85	O
ATOM	2121	OH2	WAT S	15	37.753	30.653	48.262	1.00	31.49	O
ATOM	2122	OH2	WAT S	16	39.852	0.508	38.143	1.00	34.51	O
ATOM	2123	OH2	WAT S	17	49.787	10.549	30.555	1.00	37.19	O
ATOM	2124	OH2	WAT S	18	48.590	27.775	45.618	1.00	37.05	O
ATOM	2125	OH2	WAT S	19	46.426	30.341	36.837	1.00	31.78	O
ATOM	2126	OH2	WAT S	20	26.420	26.789	43.445	1.00	49.61	O
ATOM	2127	OH2	WAT S	21	46.268	30.739	29.048	1.00	36.68	O
ATOM	2128	OH2	WAT S	22	51.867	28.804	43.136	1.00	49.35	O
ATOM	2129	OH2	WAT S	23	36.825	15.509	25.141	1.00	33.48	O
ATOM	2130	OH2	WAT S	24	33.895	12.303	25.137	1.00	32.90	O
ATOM	2131	OH2	WAT S	25	36.781	35.492	29.625	1.00	32.04	O
ATOM	2132	OH2	WAT S	26	33.992	25.683	29.926	1.00	34.00	O
ATOM	2133	OH2	WAT S	27	24.645	23.077	49.434	1.00	37.03	O
ATOM	2134	OH2	WAT S	28	37.658	21.847	53.629	1.00	28.23	O
ATOM	2135	OH2	WAT S	29	43.589	10.679	50.593	1.00	35.31	O
ATOM	2136	OH2	WAT S	30	23.719	24.494	52.323	1.00	35.79	O
ATOM	2137	OH2	WAT S	31	39.337	10.396	24.048	1.00	52.48	O
ATOM	2138	OH2	WAT S	32	30.718	16.193	20.614	1.00	43.40	O
ATOM	2139	OH2	WAT S	33	54.666	8.115	42.921	1.00	47.38	O
ATOM	2140	OH2	WAT S	34	31.589	30.437	35.873	1.00	47.91	O
ATOM	2141	OH2	WAT S	35	50.340	32.089	31.165	1.00	41.42	O
ATOM	2142	OH2	WAT S	36	52.796	22.874	51.515	1.00	43.37	O
ATOM	2143	OH2	WAT S	37	55.373	22.792	30.536	1.00	57.15	O
ATOM	2144	OH2	WAT S	38	39.463	35.817	35.231	1.00	32.47	O
ATOM	2145	OH2	WAT S	39	16.092	27.159	27.724	1.00	37.21	O
ATOM	2146	OH2	WAT S	40	25.640	24.780	14.005	1.00	45.10	O
ATOM	2147	OH2	WAT S	41	50.761	2.536	38.098	1.00	52.36	O
ATOM	2148	OH2	WAT S	42	18.634	34.668	30.052	1.00	43.13	O
ATOM	2149	OH2	WAT S	43	38.535	-2.076	28.925	1.00	32.09	O
ATOM	2150	OH2	WAT S	44	13.196	24.012	19.544	1.00	39.80	O
ATOM	2151	OH2	WAT S	45	31.357	26.426	13.729	1.00	42.37	O
ATOM	2152	OH2	WAT S	46	52.281	28.184	27.760	1.00	36.04	O
ATOM	2153	OH2	WAT S	47	46.418	33.201	38.411	1.00	44.49	O
ATOM	2154	OH2	WAT S	48	53.339	19.767	45.907	1.00	33.06	O
ATOM	2155	OH2	WAT S	49	46.967	16.612	52.076	1.00	30.83	O
ATOM	2156	OH2	WAT S	50	36.971	22.531	27.836	1.00	27.70	O
ATOM	2157	OH2	WAT S	51	34.404	33.315	13.713	1.00	63.94	O
ATOM	2158	OH2	WAT S	52	25.500	12.910	42.366	1.00	44.85	O
ATOM	2159	OH2	WAT S	53	41.068	33.656	19.666	1.00	61.38	O
ATOM	2160	OH2	WAT S	54	47.085	26.379	21.851	1.00	40.28	O
ATOM	2161	OH2	WAT S	55	20.530	37.341	28.713	1.00	42.17	O
ATOM	2162	OH2	WAT S	56	45.303	21.686	23.767	1.00	31.71	O
ATOM	2163	OH2	WAT S	57	32.171	3.766	47.945	1.00	39.12	O
ATOM	2164	OH2	WAT S	58	29.040	34.613	43.652	1.00	54.88	O
ATOM	2165	OH2	WAT S	59	63.169	17.639	43.696	1.00	51.86	O
ATOM	2166	OH2	WAT S	60	17.466	39.005	16.986	1.00	43.71	O
ATOM	2167	OH2	WAT S	61	31.214	5.360	30.303	1.00	35.40	O
ATOM	2168	OH2	WAT S	62	32.083	34.301	14.884	1.00	43.78	O
ATOM	2169	OH2	WAT S	63	56.027	25.650	46.067	1.00	55.28	O
ATOM	2170	OH2	WAT S	64	49.021	30.852	29.187	1.00	36.47	O

Figure 9MM

ATOM	2171	OH2	WAT	S	65	23.639	30.939	17.071	1.00	45.30	O
ATOM	2172	OH2	WAT	S	66	37.468	39.280	36.056	1.00	51.85	O
ATOM	2173	OH2	WAT	S	67	36.224	28.879	18.295	1.00	42.91	O
ATOM	2174	OH2	WAT	S	68	24.175	22.019	37.073	1.00	26.31	O
ATOM	2175	OH2	WAT	S	69	22.152	26.896	48.344	1.00	61.11	O
ATOM	2176	OH2	WAT	S	70	48.970	6.753	46.837	1.00	48.46	O
ATOM	2177	OH2	WAT	S	71	42.273	27.745	52.837	1.00	33.63	O
ATOM	2178	OH2	WAT	S	72	53.543	28.612	47.788	1.00	36.22	O
ATOM	2179	OH2	WAT	S	73	8.907	23.447	21.629	1.00	50.44	O
ATOM	2180	OH2	WAT	S	74	34.479	41.295	17.726	1.00	40.28	O
ATOM	2181	OH2	WAT	S	75	34.584	20.083	21.656	1.00	47.04	O
ATOM	2182	OH2	WAT	S	76	48.365	7.218	39.795	1.00	37.47	O
ATOM	2183	OH2	WAT	S	77	17.856	23.193	14.949	1.00	36.50	O
ATOM	2184	OH2	WAT	S	78	22.607	24.686	38.024	1.00	40.25	O
ATOM	2185	OH2	WAT	S	79	21.034	18.474	37.563	1.00	57.62	O
ATOM	2186	OH2	WAT	S	80	52.538	9.289	46.345	1.00	43.42	O
ATOM	2187	OH2	WAT	S	81	29.673	13.056	39.115	1.00	28.10	O
ATOM	2188	OH2	WAT	S	82	25.423	30.052	47.729	1.00	43.44	O
ATOM	2189	OH2	WAT	S	83	27.721	18.627	14.255	1.00	44.64	O
ATOM	2190	OH2	WAT	S	84	59.509	32.103	35.721	1.00	63.08	O
ATOM	2191	OH2	WAT	S	85	44.482	33.024	48.358	1.00	36.03	O
ATOM	2192	OH2	WAT	S	86	41.973	7.788	49.345	1.00	50.35	O
ATOM	2193	OH2	WAT	S	87	37.663	22.110	25.265	1.00	41.24	O
ATOM	2194	OH2	WAT	S	88	25.957	12.097	36.912	1.00	36.00	O
ATOM	2195	OH2	WAT	S	89	30.437	33.017	13.345	1.00	48.23	O
ATOM	2196	OH2	WAT	S	90	37.438	31.243	38.851	1.00	49.55	O
ATOM	2197	OH2	WAT	S	91	19.458	34.402	26.135	1.00	43.19	O
ATOM	2198	OH2	WAT	S	92	58.475	14.110	43.025	1.00	52.43	O
ATOM	2199	OH2	WAT	S	93	22.370	12.343	33.413	1.00	38.81	O
ATOM	2200	OH2	WAT	S	94	40.451	32.550	14.618	1.00	58.82	O
ATOM	2201	OH2	WAT	S	95	54.156	16.243	28.025	1.00	48.89	O
ATOM	2202	OH2	WAT	S	96	12.252	20.214	20.621	1.00	44.94	O
ATOM	2203	OH2	WAT	S	97	23.229	23.360	11.991	1.00	68.77	O
ATOM	2204	OH2	WAT	S	98	13.653	34.410	21.575	1.00	50.48	O
ATOM	2205	OH2	WAT	S	99	29.882	16.048	51.774	1.00	53.76	O
ATOM	2206	OH2	WAT	S	100	34.851	9.916	49.548	1.00	36.26	O
ATOM	2207	OH2	WAT	S	101	19.731	39.777	18.001	1.00	49.92	O
ATOM	2208	OH2	WAT	S	102	32.811	27.414	53.799	1.00	52.41	O
ATOM	2209	OH2	WAT	S	103	54.958	10.260	45.018	1.00	61.62	O
ATOM	2210	OH2	WAT	S	104	26.795	8.100	24.207	1.00	39.76	O
ATOM	2211	OH2	WAT	S	105	39.473	25.414	23.627	1.00	33.71	O
ATOM	2212	OH2	WAT	S	106	42.444	29.282	22.951	1.00	55.44	O
ATOM	2213	OH2	WAT	S	107	54.310	2.465	42.338	1.00	81.43	O
ATOM	2214	OH2	WAT	S	108	32.145	22.002	57.937	1.00	69.67	O
ATOM	2215	OH2	WAT	S	109	41.182	36.953	24.858	1.00	30.32	O
ATOM	2216	OH2	WAT	S	110	51.408	18.218	47.152	1.00	39.60	O
ATOM	2217	OH2	WAT	S	111	31.229	18.063	15.169	1.00	58.09	O
ATOM	2218	OH2	WAT	S	112	47.275	32.201	26.136	1.00	75.84	O
ATOM	2219	OH2	WAT	S	113	48.484	-3.729	34.355	1.00	49.03	O
ATOM	2220	OH2	WAT	S	114	17.441	23.890	30.338	1.00	38.38	O
ATOM	2221	OH2	WAT	S	115	23.853	34.456	13.715	1.00	61.47	O
ATOM	2222	OH2	WAT	S	116	22.764	12.193	26.654	1.00	52.95	O
ATOM	2223	OH2	WAT	S	117	23.980	15.802	45.364	1.00	50.14	O
ATOM	2224	OH2	WAT	S	118	35.972	34.774	45.163	1.00	60.33	O
ATOM	2225	OH2	WAT	S	119	37.807	19.398	24.708	1.00	61.62	O
ATOM	2226	OH2	WAT	S	120	18.366	12.430	18.822	1.00	41.37	O
ATOM	2227	OH2	WAT	S	121	28.690	28.104	42.174	1.00	64.02	O
ATOM	2228	OH2	WAT	S	122	49.307	6.503	32.285	1.00	36.36	O

Figure 9NN

ATOM	2229	OH2 WAT S 123	43.722	4.110	29.378	1.00	44.89	O
ATOM	2230	OH2 WAT S 124	26.343	29.966	7.876	1.00	62.82	O
ATOM	2231	OH2 WAT S 125	16.563	15.951	28.970	1.00	51.98	O
ATOM	2232	OH2 WAT S 126	20.175	23.841	38.565	1.00	55.56	O
ATOM	2233	OH2 WAT S 127	20.576	26.542	40.567	1.00	46.61	O
ATOM	2234	OH2 WAT S 128	40.494	17.605	54.649	1.00	38.00	O
ATOM	2235	OH2 WAT S 129	32.794	26.121	16.217	1.00	40.24	O
ATOM	2236	OH2 WAT S 130	32.054	30.620	12.330	1.00	41.15	O
ATOM	2237	OH2 WAT S 131	24.132	9.866	33.561	1.00	38.41	O
ATOM	2238	OH2 WAT S 132	39.539	30.733	24.819	1.00	33.26	O
ATOM	2239	OH2 WAT S 133	29.283	9.374	37.492	1.00	32.82	O
ATOM	2240	OH2 WAT S 134	27.129	12.130	39.369	1.00	36.01	O
ATOM	2241	OH2 WAT S 135	16.237	13.797	27.208	1.00	39.89	O
ATOM	2242	OH2 WAT S 136	35.590	17.878	24.571	1.00	35.55	O
ATOM	2243	OH2 WAT S 137	22.902	19.820	36.431	1.00	38.01	O
ATOM	2244	OH2 WAT S 138	52.919	12.766	42.677	1.00	32.51	O
ATOM	2245	OH2 WAT S 139	30.240	31.220	40.494	1.00	52.62	O
ATOM	2246	OH2 WAT S 140	37.369	27.649	21.696	1.00	36.64	O
ATOM	2247	OH2 WAT S 141	42.712	1.260	30.209	1.00	50.21	O
ATOM	2248	OH2 WAT S 142	24.778	5.524	41.136	1.00	37.52	O
ATOM	2249	OH2 WAT S 143	49.022	30.149	44.178	1.00	39.81	O
ATOM	2250	OH2 WAT S 144	44.239	27.252	54.601	1.00	45.46	O
ATOM	2251	OH2 WAT S 145	34.188	24.808	21.734	1.00	47.86	O
ATOM	2252	OH2 WAT S 146	32.237	13.936	23.957	1.00	47.59	O
ATOM	2253	OH2 WAT S 147	24.826	31.905	13.806	1.00	57.46	O
ATOM	2254	OH2 WAT S 148	35.287	19.774	55.093	1.00	53.61	O
ATOM	2255	OH2 WAT S 149	37.524	19.283	55.693	1.00	45.09	O
ATOM	2256	OH2 WAT S 150	35.302	8.641	24.481	1.00	51.58	O
ATOM	2257	OH2 WAT S 151	59.678	21.694	39.012	1.00	57.80	O
ATOM	2258	OH2 WAT S 152	36.143	-0.978	27.333	1.00	48.54	O
ATOM	2259	OH2 WAT S 153	14.265	20.928	14.183	1.00	62.49	O
ATOM	2260	OH2 WAT S 154	23.418	29.667	49.908	1.00	54.71	O
ATOM	2261	OH2 WAT S 155	38.604	24.411	54.120	1.00	52.33	O
ATOM	2262	OH2 WAT S 156	27.339	19.921	12.078	1.00	61.52	O
ATOM	2263	OH2 WAT S 157	55.513	12.418	43.797	1.00	48.44	O
ATOM	2264	OH2 WAT S 158	41.570	30.546	53.130	1.00	44.74	O
ATOM	2265	OH2 WAT S 159	30.332	6.416	25.709	1.00	48.89	O
ATOM	2266	OH2 WAT S 160	39.099	33.676	39.711	1.00	61.97	O
ATOM	2267	OH2 WAT S 161	25.263	8.969	43.752	1.00	53.20	O
ATOM	2268	OH2 WAT S 162	38.420	33.913	42.190	1.00	50.80	O
ATOM	2269	OH2 WAT S 163	41.309	37.709	36.508	1.00	59.09	O
ATOM	2270	OH2 WAT S 164	39.795	36.567	20.290	1.00	53.69	O
ATOM	2271	OH2 WAT S 165	17.433	22.843	32.869	1.00	39.36	O
ATOM	2272	OH2 WAT S 166	37.147	1.819	26.855	1.00	35.01	O
ATOM	2273	OH2 WAT S 167	26.808	29.856	51.140	1.00	34.22	O
ATOM	2274	OH2 WAT S 168	20.735	23.758	11.662	1.00	55.01	O
ATOM	2275	OH2 WAT S 169	37.554	20.226	20.434	1.00	54.40	O
ATOM	2276	OH2 WAT S 170	36.378	37.998	37.846	1.00	58.07	O
ATOM	2277	OH2 WAT S 171	18.421	12.604	25.862	1.00	45.72	O
ATOM	2278	OH2 WAT S 172	51.494	14.522	49.973	1.00	41.63	O
ATOM	2279	OH2 WAT S 173	39.132	29.730	18.357	1.00	56.55	O
ATOM	2280	OH2 WAT S 174	45.973	38.322	32.563	1.00	51.66	O
ATOM	2281	OH2 WAT S 175	51.494	34.523	30.878	1.00	51.26	O
ATOM	2282	OH2 WAT S 176	56.959	19.644	38.366	1.00	45.11	O
ATOM	2283	OH2 WAT S 177	27.770	26.356	13.109	1.00	51.59	O
ATOM	2284	OH2 WAT S 178	39.887	26.852	53.281	1.00	46.00	O
ATOM	2285	OH2 WAT S 179	31.617	7.635	49.956	1.00	42.18	O
ATOM	2286	OH2 WAT S 180	43.461	14.656	22.788	1.00	53.80	O

Figure 900

ATOM	2287	OH2 WAT S 181	39.538	18.123	23.159	1.00	56.96	O
ATOM	2288	OH2 WAT S 182	36.797	22.058	22.239	1.00	50.84	O
ATOM	2289	OH2 WAT S 183	15.670	13.383	19.237	1.00	48.91	O
ATOM	2290	OH2 WAT S 184	40.886	32.074	51.060	1.00	46.64	O
ATOM	2291	OH2 WAT S 185	46.429	3.853	37.759	1.00	47.74	O
ATOM	2292	OH2 WAT S 186	51.828	28.947	45.746	1.00	49.80	O
ATOM	2293	OH2 WAT S 187	37.821	12.326	23.248	1.00	59.05	O
ATOM	2294	OH2 WAT S 188	41.682	4.205	47.107	1.00	54.60	O
ATOM	2295	OH2 WAT S 189	24.396	40.185	10.597	1.00	65.04	O
ATOM	2296	OH2 WAT S 190	60.922	7.799	33.813	1.00	57.91	O
ATOM	2297	OH2 WAT S 191	59.350	17.293	37.717	1.00	60.20	O
ATOM	2298	OH2 WAT S 192	26.261	35.674	43.488	1.00	58.18	O
ATOM	2299	OH2 WAT S 193	32.421	28.845	41.543	1.00	57.00	O
ATOM	2300	OH2 WAT S 194	15.680	35.028	23.064	1.00	64.42	O
ATOM	2301	OH2 WAT S 195	38.794	4.828	49.890	1.00	58.11	O
ATOM	2302	OH2 WAT S 196	31.824	29.606	54.893	1.00	42.20	O
ATOM	2303	OH2 WAT S 197	56.033	18.872	46.171	1.00	43.23	O
ATOM	2304	OH2 WAT S 198	9.962	19.461	22.243	1.00	51.63	O
ATOM	2305	OH2 WAT S 199	18.489	10.150	20.863	1.00	54.24	O
ATOM	2306	OH2 WAT S 200	33.066	12.917	52.359	1.00	57.46	O
ATOM	2307	OH2 WAT S 201	30.483	0.016	45.976	1.00	48.00	O
ATOM	2308	OH2 WAT S 202	24.662	11.625	21.208	1.00	44.16	O
ATOM	2309	OH2 WAT S 203	46.715	24.249	23.656	1.00	41.75	O
ATOM	2310	OH2 WAT S 204	17.418	39.478	23.453	1.00	59.60	O
ATOM	2311	OH2 WAT S 205	36.419	43.376	23.037	1.00	52.17	O
ATOM	2312	OH2 WAT S 206	34.959	24.297	19.008	1.00	56.28	O
ATOM	2313	OH2 WAT S 207	43.180	39.844	30.801	1.00	59.11	O
ATOM	2314	OH2 WAT S 208	42.011	9.023	23.239	1.00	63.89	O
ATOM	2315	OH2 WAT S 209	22.676	12.375	19.314	1.00	53.20	O
ATOM	2316	OH2 WAT S 210	17.558	10.038	24.521	1.00	61.87	O
ATOM	2317	OH2 WAT S 211	48.462	5.142	44.693	1.00	58.47	O
ATOM	2318	OH2 WAT S 212	52.898	16.855	49.469	1.00	50.86	O
ATOM	2319	OH2 WAT S 213	37.726	41.234	24.591	1.00	47.40	O
ATOM	2320	OH2 WAT S 214	35.306	2.409	51.472	1.00	56.00	O
ATOM	2321	OH2 WAT S 215	34.107	13.946	54.277	1.00	59.41	O
ATOM	2322	OH2 WAT S 216	39.426	39.934	35.092	1.00	57.35	O
ATOM	2323	OH2 WAT S 217	49.879	15.750	52.077	1.00	59.87	O
ATOM	2324	OH2 WAT S 218	26.673	9.696	22.177	1.00	55.44	O
ATOM	2325	OH2 WAT S 219	22.122	22.199	39.182	1.00	45.37	O
ATOM	2326	OH2 WAT S 220	44.174	7.424	25.089	1.00	54.13	O
ATOM	2327	OH2 WAT S 221	53.760	5.884	44.382	1.00	54.00	O
END								

Figure 10A

```

REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 1.9 Å
REMARK starting r= 0.2224 free_r= 0.2451
REMARK final   r= 0.2185 free_r= 0.2440
REMARK rmsd bonds= 0.006037 rmsd angles= 1.31354
REMARK B rmsd for bonded mainchain atoms= 0.696 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 0.779 target= 2.0
REMARK B rmsd for angle mainchain atoms= 1.253 target= 2.0
REMARK B rmsd for angle sidechain atoms= 1.286 target= 2.5
REMARK target= mlf final wa= 0.882454 final rweight=0.367395
REMARK cycles= 1 coordinate steps= 150 B-factor steps= 100
REMARK sg= C222(1) a= 83.05 b= 112.82 c= 74.12 alpha= 90 beta= 90 gamma= 90
REMARK topology file 1 : MSI_CNX_TOPPAR:protein.top
REMARK topology file 2 : gll.top
REMARK topology file 3 : MSI_CNX_TOPPAR:water.top
REMARK topology file 4 : MSI_CNX_TOPPAR:ion.top
REMARK topology file 5 : uma.top
REMARK parameter file 1 : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2 : gll.par
REMARK parameter file 3 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 4 : MSI_CNX_TOPPAR:ion.param
REMARK parameter file 5 : uma.par
REMARK molecular structure file: automatic
REMARK input coordinates: cns8_reb.pdb
REMARK reflection file= ../././mosflm_esrf/muri_trn_free_unique.fob
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.9
REMARK initial B-factor correction applied to fobs :
REMARK B11= 3.991 B22= -8.126 B33= 4.136
REMARK B12= 0.000 B13= 0.000 B23= 0.000
REMARK B-factor correction applied to coordinate array B: -0.648
REMARK bulk solvent: (Mask) density level= 0.373583 e/Å3, B-factor= 48.6342 Å2
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range: 27807 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0): 1265 ( 4.5 % )
REMARK number of reflections rejected: 0 ( 0.0 % )
REMARK total number of reflections used: 26542 ( 95.5 % )
REMARK number of reflections in working set: 25198 ( 90.6 % )
REMARK number of reflections in test set: 1344 ( 4.8 % )
CRYST1 83.050 112.820 74.120 90.00 90.00 90.00 C 2 2 21
REMARK FILENAME="refine.pdb"
REMARK DATE:Dec-11-2002 01:22:55 created by user: kemiti
REMARK Written by CNX VERSION:2000
ATOM 1 CB PRO A 20 59.140 10.232 37.959 1.00 42.27 C
ATOM 2 CG PRO A 20 60.118 9.060 37.995 1.00 42.63 C
ATOM 3 C PRO A 20 58.220 11.395 35.947 1.00 41.62 C
ATOM 4 O PRO A 20 59.154 12.042 35.457 1.00 41.55 O
ATOM 5 N PRO A 20 59.374 9.210 35.773 1.00 42.45 N
ATOM 6 CD PRO A 20 60.587 8.879 36.540 1.00 42.74 C
ATOM 7 CA PRO A 20 58.468 10.041 36.605 1.00 42.13 C
ATOM 8 N ARG A 21 56.961 11.820 35.938 1.00 40.77 N
ATOM 9 CA ARG A 21 56.586 13.100 35.341 1.00 39.90 C
ATOM 10 CB ARG A 21 55.792 12.875 34.053 1.00 41.14 C
ATOM 11 CG ARG A 21 55.782 11.436 33.550 1.00 43.27 C
ATOM 12 CD ARG A 21 54.592 10.646 34.098 1.00 44.85 C
ATOM 13 NE ARG A 21 54.310 9.479 33.264 1.00 46.30 N
ATOM 14 CZ ARG A 21 53.249 8.687 33.392 1.00 46.83 C

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Figure 10B

ATOM	15	NH1 ARG A 21	52.338	8.918	34.332	1.00	46.85	N
ATOM	16	NH2 ARG A 21	53.095	7.661	32.562	1.00	47.39	N
ATOM	17	C ARG A 21	55.738	13.891	36.327	1.00	38.37	C
ATOM	18	O ARG A 21	55.175	13.321	37.261	1.00	38.35	O
ATOM	19	N PRO A 22	55.635	15.217	36.134	1.00	36.71	N
ATOM	20	CD PRO A 22	56.249	16.056	35.092	1.00	36.55	C
ATOM	21	CA PRO A 22	54.834	16.026	37.053	1.00	35.10	C
ATOM	22	CB PRO A 22	54.956	17.441	36.483	1.00	35.61	C
ATOM	23	CG PRO A 22	55.312	17.226	35.048	1.00	36.83	C
ATOM	24	C PRO A 22	53.392	15.548	37.177	1.00	33.33	C
ATOM	25	O PRO A 22	52.737	15.204	36.193	1.00	33.12	O
ATOM	26	N THR A 23	52.926	15.513	38.416	1.00	31.31	N
ATOM	27	CA THR A 23	51.579	15.073	38.734	1.00	28.82	C
ATOM	28	CB THR A 23	51.528	14.500	40.165	1.00	28.86	C
ATOM	29	OG1 THR A 23	52.345	13.324	40.230	1.00	29.00	O
ATOM	30	CG2 THR A 23	50.096	14.159	40.556	1.00	27.97	C
ATOM	31	C THR A 23	50.615	16.241	38.626	1.00	27.22	C
ATOM	32	O THR A 23	50.767	17.256	39.307	1.00	26.28	O
ATOM	33	N VAL A 24	49.622	16.090	37.760	1.00	26.19	N
ATOM	34	CA VAL A 24	48.623	17.123	37.564	1.00	25.17	C
ATOM	35	CB VAL A 24	48.654	17.655	36.116	1.00	25.46	C
ATOM	36	CG1 VAL A 24	47.488	18.596	35.879	1.00	25.44	C
ATOM	37	CG2 VAL A 24	49.976	18.377	35.867	1.00	25.54	C
ATOM	38	C VAL A 24	47.222	16.617	37.870	1.00	24.64	C
ATOM	39	O VAL A 24	46.786	15.593	37.344	1.00	24.53	O
ATOM	40	N LEU A 25	46.525	17.350	38.728	1.00	23.92	N
ATOM	41	CA LEU A 25	45.163	17.004	39.093	1.00	23.77	C
ATOM	42	CB LEU A 25	44.910	17.283	40.579	1.00	23.48	C
ATOM	43	CG LEU A 25	43.437	17.288	41.007	1.00	24.15	C
ATOM	44	CD1 LEU A 25	42.844	15.882	40.865	1.00	23.60	C
ATOM	45	CD2 LEU A 25	43.322	17.779	42.455	1.00	24.84	C
ATOM	46	C LEU A 25	44.189	17.840	38.279	1.00	23.16	C
ATOM	47	O LEU A 25	44.368	19.048	38.143	1.00	22.71	O
ATOM	48	N VAL A 26	43.177	17.183	37.723	1.00	23.08	N
ATOM	49	CA VAL A 26	42.122	17.867	36.991	1.00	22.84	C
ATOM	50	CB VAL A 26	42.017	17.396	35.525	1.00	23.04	C
ATOM	51	CG1 VAL A 26	40.884	18.138	34.832	1.00	22.64	C
ATOM	52	CG2 VAL A 26	43.346	17.665	34.788	1.00	22.73	C
ATOM	53	C VAL A 26	40.852	17.482	37.764	1.00	23.16	C
ATOM	54	O VAL A 26	40.520	16.295	37.876	1.00	23.27	O
ATOM	55	N PHE A 27	40.172	18.485	38.315	1.00	22.82	N
ATOM	56	CA PHE A 27	38.967	18.277	39.117	1.00	23.33	C
ATOM	57	CB PHE A 27	39.168	18.865	40.518	1.00	23.65	C
ATOM	58	CG PHE A 27	37.902	18.924	41.340	1.00	24.66	C
ATOM	59	CD1 PHE A 27	37.456	17.805	42.042	1.00	24.66	C
ATOM	60	CD2 PHE A 27	37.125	20.078	41.360	1.00	24.42	C
ATOM	61	CE1 PHE A 27	36.253	17.834	42.748	1.00	24.95	C
ATOM	62	CE2 PHE A 27	35.917	20.119	42.063	1.00	24.93	C
ATOM	63	CZ PHE A 27	35.480	18.995	42.756	1.00	25.18	C
ATOM	64	C PHE A 27	37.687	18.879	38.547	1.00	23.64	C
ATOM	65	O PHE A 27	37.705	19.941	37.931	1.00	24.06	O
ATOM	66	N ASP A 28	36.575	18.187	38.773	1.00	23.82	N
ATOM	67	CA ASP A 28	35.253	18.651	38.358	1.00	23.43	C
ATOM	68	CB ASP A 28	34.957	18.343	36.885	1.00	23.14	C
ATOM	69	CG ASP A 28	33.602	18.896	36.443	1.00	23.57	C
ATOM	70	OD1 ASP A 28	32.893	18.244	35.646	1.00	23.23	O
ATOM	71	OD2 ASP A 28	33.239	19.998	36.903	1.00	24.14	O
ATOM	72	C ASP A 28	34.226	17.924	39.202	1.00	23.59	C

Figure 10C

ATOM	73	O	ASP	A	28	34.540	16.928	39.856	1.00	23.62	O
ATOM	74	N	SER	A	29	32.996	18.421	39.179	1.00	23.49	N
ATOM	75	CA	SER	A	29	31.904	17.800	39.913	1.00	23.63	C
ATOM	76	CB	SER	A	29	30.717	18.757	39.969	1.00	23.55	C
ATOM	77	OG	SER	A	29	30.313	19.099	38.657	1.00	24.80	O
ATOM	78	C	SER	A	29	31.500	16.508	39.186	1.00	23.67	C
ATOM	79	O	SER	A	29	31.007	15.564	39.804	1.00	23.60	O
ATOM	80	N	GLY	A	30	31.721	16.471	37.874	1.00	23.60	N
ATOM	81	CA	GLY	A	30	31.377	15.294	37.096	1.00	23.98	C
ATOM	82	C	GLY	A	30	32.306	15.003	35.934	1.00	23.76	C
ATOM	83	O	GLY	A	30	33.529	14.975	36.099	1.00	24.03	O
ATOM	84	N	VAL	A	31	31.737	14.799	34.747	1.00	23.50	N
ATOM	85	CA	VAL	A	31	32.536	14.491	33.566	1.00	23.42	C
ATOM	86	CB	VAL	A	31	31.753	13.579	32.565	1.00	24.04	C
ATOM	87	CG1	VAL	A	31	31.393	12.253	33.231	1.00	24.26	C
ATOM	88	CG2	VAL	A	31	30.484	14.277	32.079	1.00	24.22	C
ATOM	89	C	VAL	A	31	33.054	15.712	32.792	1.00	23.39	C
ATOM	90	O	VAL	A	31	33.948	15.576	31.960	1.00	22.93	O
ATOM	91	N	GLY	A	32	32.503	16.892	33.062	1.00	23.03	N
ATOM	92	CA	GLY	A	32	32.933	18.083	32.341	1.00	23.53	C
ATOM	93	C	GLY	A	32	34.434	18.316	32.374	1.00	23.94	C
ATOM	94	O	GLY	A	32	35.018	18.803	31.406	1.00	23.61	O
ATOM	95	N	GLY	A	33	35.058	17.971	33.496	1.00	23.88	N
ATOM	96	CA	GLY	A	33	36.492	18.149	33.641	1.00	24.00	C
ATOM	97	C	GLY	A	33	37.272	17.468	32.537	1.00	24.04	C
ATOM	98	O	GLY	A	33	38.347	17.921	32.174	1.00	24.11	O
ATOM	99	N	LEU	A	34	36.720	16.389	31.990	1.00	24.29	N
ATOM	100	CA	LEU	A	34	37.377	15.653	30.923	1.00	24.12	C
ATOM	101	CB	LEU	A	34	36.586	14.384	30.589	1.00	24.26	C
ATOM	102	CG	LEU	A	34	36.559	13.331	31.703	1.00	24.52	C
ATOM	103	CD1	LEU	A	34	35.609	12.209	31.311	1.00	24.48	C
ATOM	104	CD2	LEU	A	34	37.969	12.795	31.940	1.00	24.92	C
ATOM	105	C	LEU	A	34	37.586	16.474	29.652	1.00	23.95	C
ATOM	106	O	LEU	A	34	38.524	16.212	28.907	1.00	24.13	O
ATOM	107	N	SER	A	35	36.729	17.461	29.394	1.00	23.76	N
ATOM	108	CA	SER	A	35	36.916	18.270	28.191	1.00	24.21	C
ATOM	109	CB	SER	A	35	35.694	19.159	27.909	1.00	23.45	C
ATOM	110	OG	SER	A	35	35.531	20.175	28.886	1.00	23.98	O
ATOM	111	C	SER	A	35	38.173	19.137	28.347	1.00	24.34	C
ATOM	112	O	SER	A	35	38.910	19.357	27.383	1.00	24.46	O
ATOM	113	N	VAL	A	36	38.416	19.611	29.564	1.00	24.57	N
ATOM	114	CA	VAL	A	36	39.582	20.444	29.847	1.00	25.04	C
ATOM	115	CB	VAL	A	36	39.445	21.160	31.211	1.00	25.08	C
ATOM	116	CG1	VAL	A	36	40.682	22.024	31.482	1.00	25.12	C
ATOM	117	CG2	VAL	A	36	38.188	22.020	31.212	1.00	25.41	C
ATOM	118	C	VAL	A	36	40.824	19.572	29.863	1.00	25.61	C
ATOM	119	O	VAL	A	36	41.869	19.935	29.313	1.00	25.10	O
ATOM	120	N	TYR	A	37	40.704	18.407	30.494	1.00	26.15	N
ATOM	121	CA	TYR	A	37	41.816	17.478	30.550	1.00	26.62	C
ATOM	122	CB	TYR	A	37	41.427	16.236	31.367	1.00	26.04	C
ATOM	123	CG	TYR	A	37	42.210	14.999	31.006	1.00	26.11	C
ATOM	124	CD1	TYR	A	37	41.696	14.065	30.106	1.00	26.04	C
ATOM	125	CE1	TYR	A	37	42.431	12.937	29.737	1.00	26.06	C
ATOM	126	CD2	TYR	A	37	43.483	14.777	31.532	1.00	26.28	C
ATOM	127	CE2	TYR	A	37	44.227	13.654	31.167	1.00	26.29	C
ATOM	128	CZ	TYR	A	37	43.694	12.742	30.274	1.00	26.29	C
ATOM	129	OH	TYR	A	37	44.414	11.627	29.922	1.00	26.91	O
ATOM	130	C	TYR	A	37	42.243	17.072	29.139	1.00	27.35	C

Figure 10D

ATOM	131	O	TYR A 37	43.431	16.998	28.840	1.00	27.42	O
ATOM	132	N	ASP A 38	41.270	16.815	28.274	1.00	28.14	N
ATOM	133	CA	ASP A 38	41.554	16.403	26.906	1.00	29.79	C
ATOM	134	CB	ASP A 38	40.234	16.233	26.149	1.00	30.37	C
ATOM	135	CG	ASP A 38	40.355	15.321	24.945	1.00	31.87	C
ATOM	136	OD1	ASP A 38	41.285	14.487	24.904	1.00	32.39	O
ATOM	137	OD2	ASP A 38	39.495	15.427	24.039	1.00	32.89	O
ATOM	138	C	ASP A 38	42.472	17.411	26.200	1.00	30.27	C
ATOM	139	O	ASP A 38	43.406	17.018	25.500	1.00	30.51	O
ATOM	140	N	GLU A 39	42.213	18.702	26.399	1.00	30.88	N
ATOM	141	CA	GLU A 39	43.032	19.759	25.799	1.00	32.05	C
ATOM	142	CB	GLU A 39	42.367	21.123	25.992	1.00	32.93	C
ATOM	143	CG	GLU A 39	41.075	21.325	25.219	1.00	35.19	C
ATOM	144	CD	GLU A 39	41.310	21.703	23.766	1.00	36.77	C
ATOM	145	OE1	GLU A 39	40.316	21.968	23.056	1.00	38.63	O
ATOM	146	OE2	GLU A 39	42.481	21.743	23.333	1.00	37.13	O
ATOM	147	C	GLU A 39	44.417	19.786	26.447	1.00	32.29	C
ATOM	148	O	GLU A 39	45.435	19.941	25.772	1.00	31.60	O
ATOM	149	N	ILE A 40	44.454	19.640	27.765	1.00	32.60	N
ATOM	150	CA	ILE A 40	45.726	19.646	28.472	1.00	33.11	C
ATOM	151	CB	ILE A 40	45.517	19.585	29.998	1.00	32.73	C
ATOM	152	CG2	ILE A 40	46.867	19.494	30.709	1.00	32.95	C
ATOM	153	CG1	ILE A 40	44.750	20.824	30.468	1.00	32.28	C
ATOM	154	CD1	ILE A 40	44.401	20.809	31.947	1.00	32.55	C
ATOM	155	C	ILE A 40	46.623	18.486	28.040	1.00	33.95	C
ATOM	156	O	ILE A 40	47.806	18.688	27.753	1.00	33.92	O
ATOM	157	N	ARG A 41	46.072	17.275	27.982	1.00	34.92	N
ATOM	158	CA	ARG A 41	46.872	16.118	27.593	1.00	36.38	C
ATOM	159	CB	ARG A 41	46.114	14.805	27.815	1.00	36.95	C
ATOM	160	CG	ARG A 41	44.970	14.556	26.850	1.00	38.65	C
ATOM	161	CD	ARG A 41	44.714	13.060	26.676	1.00	40.05	C
ATOM	162	NE	ARG A 41	43.499	12.807	25.905	1.00	41.30	N
ATOM	163	CZ	ARG A 41	43.076	11.600	25.541	1.00	41.65	C
ATOM	164	NH1	ARG A 41	43.770	10.518	25.872	1.00	41.91	N
ATOM	165	NH2	ARG A 41	41.952	11.475	24.847	1.00	42.04	N
ATOM	166	C	ARG A 41	47.324	16.188	26.141	1.00	37.23	C
ATOM	167	O	ARG A 41	48.347	15.618	25.780	1.00	36.68	O
ATOM	168	N	HIS A 42	46.554	16.870	25.303	1.00	38.38	N
ATOM	169	CA	HIS A 42	46.935	16.990	23.905	1.00	39.98	C
ATOM	170	CB	HIS A 42	45.803	17.637	23.102	1.00	40.97	C
ATOM	171	CG	HIS A 42	46.096	17.757	21.640	1.00	42.48	C
ATOM	172	CD2	HIS A 42	45.580	17.104	20.571	1.00	43.17	C
ATOM	173	ND1	HIS A 42	47.032	18.634	21.137	1.00	43.19	N
ATOM	174	CE1	HIS A 42	47.080	18.519	19.821	1.00	43.48	C
ATOM	175	NE2	HIS A 42	46.208	17.597	19.452	1.00	43.37	N
ATOM	176	C	HIS A 42	48.207	17.836	23.822	1.00	40.26	C
ATOM	177	O	HIS A 42	49.053	17.625	22.955	1.00	40.52	O
ATOM	178	N	LEU A 43	48.341	18.783	24.747	1.00	40.38	N
ATOM	179	CA	LEU A 43	49.500	19.662	24.795	1.00	40.54	C
ATOM	180	CB	LEU A 43	49.087	21.020	25.372	1.00	40.84	C
ATOM	181	CG	LEU A 43	50.118	22.150	25.372	1.00	40.88	C
ATOM	182	CD1	LEU A 43	50.521	22.468	23.935	1.00	41.44	C
ATOM	183	CD2	LEU A 43	49.533	23.386	26.043	1.00	40.98	C
ATOM	184	C	LEU A 43	50.638	19.065	25.631	1.00	40.74	C
ATOM	185	O	LEU A 43	51.812	19.224	25.299	1.00	40.80	O
ATOM	186	N	LEU A 44	50.284	18.379	26.715	1.00	40.77	N
ATOM	187	CA	LEU A 44	51.263	17.759	27.615	1.00	40.94	C
ATOM	188	CB	LEU A 44	51.281	18.515	28.942	1.00	40.98	C

Figure 10E

ATOM	189	CG	LEU	A	44	51.493	20.023	28.814	1.00	40.82	C
ATOM	190	CD1	LEU	A	44	51.011	20.721	30.066	1.00	40.73	C
ATOM	191	CD2	LEU	A	44	52.964	20.307	28.550	1.00	41.26	C
ATOM	192	C	LEU	A	44	50.841	16.310	27.841	1.00	41.15	C
ATOM	193	O	LEU	A	44	50.325	15.955	28.903	1.00	41.15	O
ATOM	194	N	PRO	A	45	51.075	15.445	26.843	1.00	41.22	N
ATOM	195	CD	PRO	A	45	51.677	15.806	25.545	1.00	41.47	C
ATOM	196	CA	PRO	A	45	50.725	14.021	26.873	1.00	41.13	C
ATOM	197	CB	PRO	A	45	50.900	13.604	25.413	1.00	41.22	C
ATOM	198	CG	PRO	A	45	52.040	14.456	24.968	1.00	41.02	C
ATOM	199	C	PRO	A	45	51.418	13.044	27.826	1.00	41.10	C
ATOM	200	O	PRO	A	45	50.885	11.961	28.077	1.00	41.10	O
ATOM	201	N	ASP	A	46	52.576	13.400	28.373	1.00	40.74	N
ATOM	202	CA	ASP	A	46	53.280	12.454	29.240	1.00	40.25	C
ATOM	203	CB	ASP	A	46	54.765	12.400	28.854	1.00	41.61	C
ATOM	204	CG	ASP	A	46	54.974	12.058	27.391	1.00	43.12	C
ATOM	205	OD1	ASP	A	46	54.498	10.985	26.956	1.00	43.83	O
ATOM	206	OD2	ASP	A	46	55.618	12.863	26.676	1.00	44.38	O
ATOM	207	C	ASP	A	46	53.176	12.666	30.749	1.00	38.90	C
ATOM	208	O	ASP	A	46	53.812	11.941	31.511	1.00	39.20	O
ATOM	209	N	LEU	A	47	52.381	13.636	31.185	1.00	36.81	N
ATOM	210	CA	LEU	A	47	52.249	13.907	32.614	1.00	34.74	C
ATOM	211	CB	LEU	A	47	51.450	15.194	32.833	1.00	34.94	C
ATOM	212	CG	LEU	A	47	51.913	16.438	32.077	1.00	34.69	C
ATOM	213	CD1	LEU	A	47	51.018	17.604	32.434	1.00	35.28	C
ATOM	214	CD2	LEU	A	47	53.358	16.746	32.428	1.00	35.67	C
ATOM	215	C	LEU	A	47	51.564	12.774	33.364	1.00	33.31	C
ATOM	216	O	LEU	A	47	50.968	11.881	32.758	1.00	33.06	O
ATOM	217	N	HIS	A	48	51.678	12.800	34.689	1.00	31.91	N
ATOM	218	CA	HIS	A	48	51.013	11.808	35.530	1.00	30.54	C
ATOM	219	CB	HIS	A	48	51.794	11.524	36.814	1.00	30.57	C
ATOM	220	CG	HIS	A	48	51.017	10.729	37.822	1.00	30.87	C
ATOM	221	CD2	HIS	A	48	50.251	9.620	37.685	1.00	30.97	C
ATOM	222	ND1	HIS	A	48	50.986	11.050	39.163	1.00	31.68	N
ATOM	223	CE1	HIS	A	48	50.236	10.173	39.808	1.00	31.33	C
ATOM	224	NE2	HIS	A	48	49.778	9.295	38.933	1.00	31.22	N
ATOM	225	C	HIS	A	48	49.704	12.490	35.900	1.00	29.55	C
ATOM	226	O	HIS	A	48	49.668	13.331	36.802	1.00	29.03	O
ATOM	227	N	TYR	A	49	48.641	12.139	35.194	1.00	28.24	N
ATOM	228	CA	TYR	A	49	47.349	12.754	35.441	1.00	27.76	C
ATOM	229	CB	TYR	A	49	46.555	12.878	34.135	1.00	28.09	C
ATOM	230	CG	TYR	A	49	47.108	13.881	33.145	1.00	28.48	C
ATOM	231	CD1	TYR	A	49	47.890	13.471	32.066	1.00	28.86	C
ATOM	232	CE1	TYR	A	49	48.375	14.395	31.124	1.00	29.12	C
ATOM	233	CD2	TYR	A	49	46.823	15.242	33.275	1.00	28.88	C
ATOM	234	CE2	TYR	A	49	47.301	16.173	32.350	1.00	29.31	C
ATOM	235	CZ	TYR	A	49	48.075	15.741	31.275	1.00	29.63	C
ATOM	236	OH	TYR	A	49	48.527	16.665	30.353	1.00	29.75	O
ATOM	237	C	TYR	A	49	46.477	12.040	36.463	1.00	27.00	C
ATOM	238	O	TYR	A	49	46.433	10.808	36.533	1.00	26.57	O
ATOM	239	N	ILE	A	50	45.791	12.844	37.259	1.00	25.98	N
ATOM	240	CA	ILE	A	50	44.854	12.340	38.243	1.00	24.91	C
ATOM	241	CB	ILE	A	50	45.259	12.705	39.682	1.00	24.96	C
ATOM	242	CG2	ILE	A	50	44.167	12.253	40.654	1.00	23.79	C
ATOM	243	CG1	ILE	A	50	46.598	12.054	40.041	1.00	24.11	C
ATOM	244	CD1	ILE	A	50	47.213	12.622	41.313	1.00	24.92	C
ATOM	245	C	ILE	A	50	43.560	13.071	37.933	1.00	24.67	C
ATOM	246	O	ILE	A	50	43.536	14.305	37.900	1.00	24.39	O

Figure 10F

ATOM	247	N	TYR A 51	42.498	12.321	37.671	1.00	24.20	N
ATOM	248	CA	TYR A 51	41.205	12.933	37.413	1.00	24.34	C
ATOM	249	CB	TYR A 51	40.549	12.369	36.148	1.00	24.65	C
ATOM	250	CG	TYR A 51	39.285	13.123	35.766	1.00	25.11	C
ATOM	251	CD1	TYR A 51	38.018	12.626	36.076	1.00	25.28	C
ATOM	252	CE1	TYR A 51	36.860	13.369	35.793	1.00	25.75	C
ATOM	253	CD2	TYR A 51	39.366	14.376	35.157	1.00	25.76	C
ATOM	254	CE2	TYR A 51	38.220	15.122	34.867	1.00	25.82	C
ATOM	255	CZ	TYR A 51	36.974	14.620	35.189	1.00	26.04	C
ATOM	256	OH	TYR A 51	35.856	15.394	34.926	1.00	25.60	O
ATOM	257	C	TYR A 51	40.337	12.612	38.616	1.00	24.47	C
ATOM	258	O	TYR A 51	40.221	11.451	39.014	1.00	24.67	O
ATOM	259	N	ALA A 52	39.740	13.637	39.208	1.00	24.11	N
ATOM	260	CA	ALA A 52	38.878	13.425	40.363	1.00	23.89	C
ATOM	261	CB	ALA A 52	39.533	13.994	41.619	1.00	23.82	C
ATOM	262	C	ALA A 52	37.533	14.090	40.131	1.00	23.96	C
ATOM	263	O	ALA A 52	37.466	15.253	39.723	1.00	23.07	O
ATOM	264	N	PHE A 53	36.461	13.347	40.372	1.00	23.37	N
ATOM	265	CA	PHE A 53	35.132	13.906	40.208	1.00	23.51	C
ATOM	266	CB	PHE A 53	34.474	13.388	38.909	1.00	23.73	C
ATOM	267	CG	PHE A 53	34.310	11.889	38.838	1.00	24.04	C
ATOM	268	CD1	PHE A 53	33.054	11.309	39.007	1.00	23.82	C
ATOM	269	CD2	PHE A 53	35.398	11.066	38.559	1.00	24.45	C
ATOM	270	CE1	PHE A 53	32.882	9.929	38.895	1.00	24.38	C
ATOM	271	CE2	PHE A 53	35.242	9.679	38.445	1.00	24.39	C
ATOM	272	CZ	PHE A 53	33.978	9.111	38.614	1.00	24.35	C
ATOM	273	C	PHE A 53	34.276	13.625	41.444	1.00	23.79	C
ATOM	274	O	PHE A 53	34.305	12.528	42.013	1.00	22.86	O
ATOM	275	N	ASP A 54	33.533	14.642	41.868	1.00	23.79	N
ATOM	276	CA	ASP A 54	32.682	14.541	43.051	1.00	24.06	C
ATOM	277	CB	ASP A 54	32.563	15.916	43.714	1.00	23.89	C
ATOM	278	CG	ASP A 54	31.963	15.840	45.109	1.00	23.89	C
ATOM	279	OD1	ASP A 54	31.577	14.727	45.538	1.00	22.90	O
ATOM	280	OD2	ASP A 54	31.880	16.894	45.772	1.00	23.05	O
ATOM	281	C	ASP A 54	31.289	14.002	42.734	1.00	24.18	C
ATOM	282	O	ASP A 54	30.312	14.750	42.734	1.00	23.82	O
ATOM	283	N	ASN A 55	31.191	12.698	42.488	1.00	24.17	N
ATOM	284	CA	ASN A 55	29.905	12.103	42.170	1.00	25.09	C
ATOM	285	CB	ASN A 55	30.090	10.674	41.631	1.00	25.26	C
ATOM	286	CG	ASN A 55	30.731	9.737	42.639	1.00	25.36	C
ATOM	287	OD1	ASN A 55	31.791	10.028	43.201	1.00	24.79	O
ATOM	288	ND2	ASN A 55	30.092	8.592	42.864	1.00	25.74	N
ATOM	289	C	ASN A 55	28.970	12.110	43.376	1.00	25.56	C
ATOM	290	O	ASN A 55	27.770	11.915	43.226	1.00	25.79	O
ATOM	291	N	VAL A 56	29.520	12.362	44.561	1.00	25.66	N
ATOM	292	CA	VAL A 56	28.731	12.405	45.794	1.00	26.16	C
ATOM	293	CB	VAL A 56	29.642	12.231	47.043	1.00	26.47	C
ATOM	294	CG1	VAL A 56	28.888	12.614	48.320	1.00	26.82	C
ATOM	295	CG2	VAL A 56	30.112	10.785	47.140	1.00	26.75	C
ATOM	296	C	VAL A 56	27.930	13.704	45.950	1.00	26.34	C
ATOM	297	O	VAL A 56	26.779	13.683	46.395	1.00	26.27	O
ATOM	298	N	ALA A 57	28.528	14.831	45.576	1.00	25.69	N
ATOM	299	CA	ALA A 57	27.846	16.106	45.723	1.00	25.62	C
ATOM	300	CB	ALA A 57	28.721	17.072	46.509	1.00	25.61	C
ATOM	301	C	ALA A 57	27.399	16.740	44.405	1.00	25.80	C
ATOM	302	O	ALA A 57	26.813	17.820	44.406	1.00	25.99	O
ATOM	303	N	PHE A 58	27.675	16.079	43.284	1.00	25.66	N
ATOM	304	CA	PHE A 58	27.242	16.595	41.984	1.00	25.94	C

Figure 10G

ATOM	305	CB	PHE	A	58	27.689	15.659	40.856	1.00	25.77	C
ATOM	306	CG	PHE	A	58	27.101	16.006	39.517	1.00	26.33	C
ATOM	307	CD1	PHE	A	58	27.725	16.933	38.684	1.00	26.01	C
ATOM	308	CD2	PHE	A	58	25.892	15.445	39.112	1.00	26.14	C
ATOM	309	CE1	PHE	A	58	27.152	17.300	37.467	1.00	26.79	C
ATOM	310	CE2	PHE	A	58	25.308	15.807	37.893	1.00	27.07	C
ATOM	311	CZ	PHE	A	58	25.938	16.735	37.071	1.00	27.22	C
ATOM	312	C	PHE	A	58	25.714	16.601	42.045	1.00	26.23	C
ATOM	313	O	PHE	A	58	25.123	15.651	42.555	1.00	26.27	O
ATOM	314	N	PRO	A	59	25.053	17.645	41.507	1.00	26.87	N
ATOM	315	CD	PRO	A	59	23.589	17.565	41.316	1.00	27.24	C
ATOM	316	CA	PRO	A	59	25.591	18.836	40.838	1.00	27.09	C
ATOM	317	CB	PRO	A	59	24.484	19.195	39.850	1.00	27.32	C
ATOM	318	CG	PRO	A	59	23.257	18.898	40.647	1.00	27.45	C
ATOM	319	C	PRO	A	59	25.902	19.993	41.788	1.00	27.44	C
ATOM	320	O	PRO	A	59	25.197	20.214	42.776	1.00	26.87	O
ATOM	321	N	TYR	A	60	26.968	20.725	41.476	1.00	28.08	N
ATOM	322	CA	TYR	A	60	27.395	21.870	42.277	1.00	29.46	C
ATOM	323	CB	TYR	A	60	28.873	22.182	41.988	1.00	28.52	C
ATOM	324	CG	TYR	A	60	29.887	21.318	42.725	1.00	27.75	C
ATOM	325	CD1	TYR	A	60	29.520	20.113	43.339	1.00	27.37	C
ATOM	326	CE1	TYR	A	60	30.475	19.317	44.006	1.00	26.91	C
ATOM	327	CD2	TYR	A	60	31.228	21.708	42.794	1.00	27.09	C
ATOM	328	CE2	TYR	A	60	32.178	20.932	43.450	1.00	27.19	C
ATOM	329	CZ	TYR	A	60	31.802	19.739	44.054	1.00	27.07	C
ATOM	330	OH	TYR	A	60	32.758	18.982	44.698	1.00	25.80	O
ATOM	331	C	TYR	A	60	26.539	23.119	41.991	1.00	30.92	C
ATOM	332	O	TYR	A	60	26.389	23.993	42.849	1.00	30.67	O
ATOM	333	N	GLY	A	61	25.981	23.190	40.785	1.00	33.00	N
ATOM	334	CA	GLY	A	61	25.165	24.332	40.400	1.00	35.24	C
ATOM	335	C	GLY	A	61	24.126	24.770	41.418	1.00	37.04	C
ATOM	336	O	GLY	A	61	23.892	25.965	41.601	1.00	37.85	O
ATOM	337	N	GLU	A	62	23.512	23.803	42.089	1.00	38.35	N
ATOM	338	CA	GLU	A	62	22.479	24.069	43.088	1.00	39.52	C
ATOM	339	CB	GLU	A	62	21.559	22.852	43.183	1.00	41.20	C
ATOM	340	CG	GLU	A	62	22.340	21.562	43.450	1.00	43.11	C
ATOM	341	CD	GLU	A	62	21.455	20.385	43.790	1.00	44.30	C
ATOM	342	OE1	GLU	A	62	20.626	19.994	42.931	1.00	45.50	O
ATOM	343	OE2	GLU	A	62	21.590	19.850	44.917	1.00	44.82	O
ATOM	344	C	GLU	A	62	23.026	24.374	44.487	1.00	39.48	C
ATOM	345	O	GLU	A	62	22.459	25.187	45.226	1.00	40.03	O
ATOM	346	N	LYS	A	63	24.123	23.708	44.833	1.00	38.32	N
ATOM	347	CA	LYS	A	63	24.772	23.827	46.135	1.00	37.54	C
ATOM	348	CB	LYS	A	63	26.033	22.956	46.148	1.00	36.71	C
ATOM	349	CG	LYS	A	63	25.795	21.494	45.761	1.00	36.22	C
ATOM	350	CD	LYS	A	63	24.954	20.758	46.796	1.00	35.50	C
ATOM	351	CE	LYS	A	63	24.888	19.257	46.509	1.00	34.57	C
ATOM	352	NZ	LYS	A	63	24.287	18.933	45.180	1.00	33.47	N
ATOM	353	C	LYS	A	63	25.130	25.233	46.623	1.00	37.13	C
ATOM	354	O	LYS	A	63	25.354	26.153	45.833	1.00	37.17	O
ATOM	355	N	SER	A	64	25.180	25.376	47.944	1.00	36.87	N
ATOM	356	CA	SER	A	64	25.531	26.637	48.590	1.00	36.73	C
ATOM	357	CB	SER	A	64	25.270	26.553	50.096	1.00	36.69	C
ATOM	358	OG	SER	A	64	23.936	26.162	50.370	1.00	37.39	O
ATOM	359	C	SER	A	64	27.017	26.869	48.360	1.00	36.81	C
ATOM	360	O	SER	A	64	27.801	25.915	48.358	1.00	36.64	O
ATOM	361	N	GLU	A	65	27.410	28.125	48.177	1.00	36.66	N
ATOM	362	CA	GLU	A	65	28.813	28.439	47.947	1.00	36.97	C

Figure 10H

ATOM	363	CB	GLU A 65	28.985	29.926	47.611	1.00	38.23	C
ATOM	364	CG	GLU A 65	28.742	30.243	46.138	1.00	40.25	C
ATOM	365	CD	GLU A 65	28.841	31.730	45.815	1.00	42.02	C
ATOM	366	OE1	GLU A 65	29.763	32.403	46.336	1.00	43.02	O
ATOM	367	OE2	GLU A 65	28.006	32.223	45.023	1.00	43.06	O
ATOM	368	C	GLU A 65	29.702	28.050	49.122	1.00	36.16	C
ATOM	369	O	GLU A 65	30.831	27.606	48.917	1.00	36.24	O
ATOM	370	N	ALA A 66	29.198	28.202	50.345	1.00	35.06	N
ATOM	371	CA	ALA A 66	29.972	27.845	51.536	1.00	34.39	C
ATOM	372	CB	ALA A 66	29.191	28.190	52.794	1.00	34.26	C
ATOM	373	C	ALA A 66	30.317	26.348	51.522	1.00	33.80	C
ATOM	374	O	ALA A 66	31.420	25.943	51.903	1.00	33.49	O
ATOM	375	N	PHE A 67	29.367	25.528	51.087	1.00	32.84	N
ATOM	376	CA	PHE A 67	29.598	24.091	51.009	1.00	31.99	C
ATOM	377	CB	PHE A 67	28.308	23.339	50.657	1.00	31.83	C
ATOM	378	CG	PHE A 67	28.550	21.930	50.191	1.00	31.22	C
ATOM	379	CD1	PHE A 67	28.891	20.928	51.098	1.00	31.15	C
ATOM	380	CD2	PHE A 67	28.526	21.625	48.834	1.00	31.38	C
ATOM	381	CE1	PHE A 67	29.211	19.639	50.657	1.00	30.97	C
ATOM	382	CE2	PHE A 67	28.846	20.337	48.384	1.00	31.33	C
ATOM	383	CZ	PHE A 67	29.189	19.346	49.301	1.00	30.62	C
ATOM	384	C	PHE A 67	30.643	23.796	49.936	1.00	31.40	C
ATOM	385	O	PHE A 67	31.613	23.082	50.186	1.00	31.16	O
ATOM	386	N	ILE A 68	30.433	24.350	48.744	1.00	30.67	N
ATOM	387	CA	ILE A 68	31.338	24.139	47.618	1.00	30.11	C
ATOM	388	CB	ILE A 68	30.926	25.003	46.394	1.00	29.93	C
ATOM	389	CG2	ILE A 68	31.983	24.902	45.294	1.00	29.25	C
ATOM	390	CG1	ILE A 68	29.568	24.533	45.858	1.00	30.20	C
ATOM	391	CD1	ILE A 68	29.116	25.245	44.591	1.00	30.32	C
ATOM	392	C	ILE A 68	32.809	24.414	47.944	1.00	30.38	C
ATOM	393	O	ILE A 68	33.679	23.591	47.649	1.00	29.53	O
ATOM	394	N	VAL A 69	33.092	25.567	48.545	1.00	30.39	N
ATOM	395	CA	VAL A 69	34.470	25.907	48.886	1.00	30.68	C
ATOM	396	CB	VAL A 69	34.557	27.290	49.579	1.00	31.33	C
ATOM	397	CG1	VAL A 69	35.998	27.578	49.994	1.00	31.13	C
ATOM	398	CG2	VAL A 69	34.052	28.376	48.631	1.00	31.78	C
ATOM	399	C	VAL A 69	35.085	24.851	49.801	1.00	30.46	C
ATOM	400	O	VAL A 69	36.175	24.349	49.523	1.00	30.83	O
ATOM	401	N	GLU A 70	34.379	24.508	50.878	1.00	29.88	N
ATOM	402	CA	GLU A 70	34.869	23.518	51.834	1.00	30.07	C
ATOM	403	CB	GLU A 70	33.899	23.369	53.016	1.00	31.73	C
ATOM	404	CG	GLU A 70	33.763	24.597	53.925	1.00	35.37	C
ATOM	405	CD	GLU A 70	35.085	25.046	54.534	1.00	37.49	C
ATOM	406	OE1	GLU A 70	35.894	24.179	54.938	1.00	39.42	O
ATOM	407	OE2	GLU A 70	35.314	26.273	54.619	1.00	39.33	O
ATOM	408	C	GLU A 70	35.064	22.148	51.191	1.00	28.57	C
ATOM	409	O	GLU A 70	36.051	21.452	51.458	1.00	28.03	O
ATOM	410	N	ARG A 71	34.109	21.768	50.354	1.00	26.83	N
ATOM	411	CA	ARG A 71	34.140	20.478	49.677	1.00	25.52	C
ATOM	412	CB	ARG A 71	32.827	20.259	48.919	1.00	25.00	C
ATOM	413	CG	ARG A 71	32.717	18.924	48.195	1.00	24.55	C
ATOM	414	CD	ARG A 71	32.741	17.739	49.156	1.00	24.30	C
ATOM	415	NE	ARG A 71	32.481	16.490	48.437	1.00	24.43	N
ATOM	416	CZ	ARG A 71	32.569	15.278	48.973	1.00	24.76	C
ATOM	417	NH1	ARG A 71	32.915	15.130	50.248	1.00	24.34	N
ATOM	418	NH2	ARG A 71	32.321	14.210	48.227	1.00	24.54	N
ATOM	419	C	ARG A 71	35.320	20.345	48.722	1.00	24.66	C
ATOM	420	O	ARG A 71	36.044	19.352	48.769	1.00	24.09	O

Figure 10I

ATOM	421	N	VAL A 72	35.521	21.342	47.863	1.00	23.70	N
ATOM	422	CA	VAL A 72	36.622	21.279	46.909	1.00	23.69	C
ATOM	423	CB	VAL A 72	36.537	22.428	45.883	1.00	23.55	C
ATOM	424	CG1	VAL A 72	37.697	22.337	44.904	1.00	23.48	C
ATOM	425	CG2	VAL A 72	35.206	22.337	45.125	1.00	24.07	C
ATOM	426	C	VAL A 72	37.976	21.301	47.623	1.00	23.44	C
ATOM	427	O	VAL A 72	38.907	20.607	47.216	1.00	23.28	O
ATOM	428	N	VAL A 73	38.085	22.088	48.686	1.00	23.43	N
ATOM	429	CA	VAL A 73	39.326	22.139	49.451	1.00	23.42	C
ATOM	430	CB	VAL A 73	39.264	23.209	50.571	1.00	24.16	C
ATOM	431	CG1	VAL A 73	40.438	23.033	51.540	1.00	24.47	C
ATOM	432	CG2	VAL A 73	39.316	24.604	49.964	1.00	24.03	C
ATOM	433	C	VAL A 73	39.578	20.755	50.076	1.00	23.35	C
ATOM	434	O	VAL A 73	40.707	20.277	50.094	1.00	23.23	O
ATOM	435	N	ALA A 74	38.527	20.108	50.575	1.00	22.61	N
ATOM	436	CA	ALA A 74	38.679	18.782	51.179	1.00	22.36	C
ATOM	437	CB	ALA A 74	37.382	18.355	51.870	1.00	22.18	C
ATOM	438	C	ALA A 74	39.085	17.736	50.132	1.00	22.47	C
ATOM	439	O	ALA A 74	39.916	16.867	50.400	1.00	21.70	O
ATOM	440	N	ILE A 75	38.499	17.806	48.940	1.00	22.12	N
ATOM	441	CA	ILE A 75	38.857	16.845	47.911	1.00	22.33	C
ATOM	442	CB	ILE A 75	37.898	16.942	46.695	1.00	22.09	C
ATOM	443	CG2	ILE A 75	38.439	16.106	45.531	1.00	21.64	C
ATOM	444	CG1	ILE A 75	36.502	16.455	47.107	1.00	22.35	C
ATOM	445	CD1	ILE A 75	35.414	16.664	46.055	1.00	21.88	C
ATOM	446	C	ILE A 75	40.319	17.017	47.460	1.00	22.41	C
ATOM	447	O	ILE A 75	41.038	16.033	47.306	1.00	22.76	O
ATOM	448	N	VAL A 76	40.770	18.253	47.259	1.00	22.98	N
ATOM	449	CA	VAL A 76	42.157	18.464	46.831	1.00	22.84	C
ATOM	450	CB	VAL A 76	42.436	19.945	46.478	1.00	23.18	C
ATOM	451	CG1	VAL A 76	43.922	20.122	46.125	1.00	23.17	C
ATOM	452	CG2	VAL A 76	41.557	20.376	45.294	1.00	22.52	C
ATOM	453	C	VAL A 76	43.106	18.030	47.951	1.00	23.01	C
ATOM	454	O	VAL A 76	44.206	17.542	47.706	1.00	22.66	O
ATOM	455	N	THR A 77	42.672	18.207	49.190	1.00	23.25	N
ATOM	456	CA	THR A 77	43.482	17.802	50.329	1.00	23.42	C
ATOM	457	CB	THR A 77	42.804	18.220	51.640	1.00	23.36	C
ATOM	458	OG1	THR A 77	42.715	19.650	51.672	1.00	23.52	O
ATOM	459	CG2	THR A 77	43.604	17.737	52.851	1.00	23.84	C
ATOM	460	C	THR A 77	43.673	16.285	50.305	1.00	23.65	C
ATOM	461	O	THR A 77	44.781	15.784	50.526	1.00	23.58	O
ATOM	462	N	ALA A 78	42.592	15.562	50.024	1.00	23.68	N
ATOM	463	CA	ALA A 78	42.635	14.104	49.973	1.00	24.18	C
ATOM	464	CB	ALA A 78	41.222	13.534	49.835	1.00	24.04	C
ATOM	465	C	ALA A 78	43.505	13.632	48.817	1.00	24.10	C
ATOM	466	O	ALA A 78	44.275	12.683	48.960	1.00	23.96	O
ATOM	467	N	VAL A 79	43.389	14.288	47.667	1.00	23.77	N
ATOM	468	CA	VAL A 79	44.206	13.892	46.533	1.00	24.22	C
ATOM	469	CB	VAL A 79	43.880	14.714	45.264	1.00	23.88	C
ATOM	470	CG1	VAL A 79	44.830	14.320	44.145	1.00	23.31	C
ATOM	471	CG2	VAL A 79	42.434	14.466	44.834	1.00	23.95	C
ATOM	472	C	VAL A 79	45.683	14.086	46.874	1.00	24.69	C
ATOM	473	O	VAL A 79	46.505	13.204	46.612	1.00	24.55	O
ATOM	474	N	GLN A 80	46.005	15.234	47.465	1.00	25.87	N
ATOM	475	CA	GLN A 80	47.381	15.560	47.847	1.00	27.88	C
ATOM	476	CB	GLN A 80	47.449	16.934	48.524	1.00	28.24	C
ATOM	477	CG	GLN A 80	48.853	17.292	49.006	1.00	29.92	C
ATOM	478	CD	GLN A 80	48.950	18.668	49.616	1.00	30.55	C

Figure 10J

ATOM	479	OE1 GLN A 80	48.356	18.943	50.662	1.00	32.95	O
ATOM	480	NE2 GLN A 80	49.703	19.546	48.971	1.00	31.00	N
ATOM	481	C GLN A 80	47.991	14.521	48.781	1.00	29.34	C
ATOM	482	O GLN A 80	49.211	14.361	48.833	1.00	28.95	O
ATOM	483	N GLU A 81	47.143	13.824	49.527	1.00	30.79	N
ATOM	484	CA GLU A 81	47.617	12.799	50.445	1.00	32.53	C
ATOM	485	CB GLU A 81	46.525	12.443	51.453	1.00	34.55	C
ATOM	486	CG GLU A 81	46.442	13.408	52.606	1.00	37.85	C
ATOM	487	CD GLU A 81	47.735	13.457	53.399	1.00	39.61	C
ATOM	488	OE1 GLU A 81	48.230	12.381	53.806	1.00	41.29	O
ATOM	489	OE2 GLU A 81	48.258	14.569	53.618	1.00	41.33	O
ATOM	490	C GLU A 81	48.035	11.559	49.675	1.00	32.42	C
ATOM	491	O GLU A 81	48.974	10.865	50.066	1.00	32.74	O
ATOM	492	N ARG A 82	47.337	11.285	48.578	1.00	31.81	N
ATOM	493	CA ARG A 82	47.653	10.135	47.743	1.00	31.83	C
ATOM	494	CB ARG A 82	46.456	9.777	46.852	1.00	32.76	C
ATOM	495	CG ARG A 82	45.289	9.128	47.600	1.00	34.95	C
ATOM	496	CD ARG A 82	45.701	7.773	48.180	1.00	36.27	C
ATOM	497	NE ARG A 82	45.997	6.810	47.120	1.00	38.20	N
ATOM	498	CZ ARG A 82	45.085	6.042	46.528	1.00	38.36	C
ATOM	499	NH1 ARG A 82	43.815	6.116	46.899	1.00	38.95	N
ATOM	500	NH2 ARG A 82	45.441	5.212	45.554	1.00	38.87	N
ATOM	501	C ARG A 82	48.879	10.431	46.877	1.00	31.32	C
ATOM	502	O ARG A 82	49.741	9.568	46.690	1.00	31.21	O
ATOM	503	N TYR A 83	48.953	11.650	46.351	1.00	30.58	N
ATOM	504	CA TYR A 83	50.079	12.057	45.510	1.00	30.30	C
ATOM	505	CB TYR A 83	49.798	11.802	44.021	1.00	30.71	C
ATOM	506	CG TYR A 83	49.710	10.362	43.580	1.00	31.39	C
ATOM	507	CD1 TYR A 83	48.481	9.717	43.484	1.00	31.23	C
ATOM	508	CE1 TYR A 83	48.394	8.404	43.034	1.00	32.06	C
ATOM	509	CD2 TYR A 83	50.857	9.655	43.218	1.00	31.62	C
ATOM	510	CE2 TYR A 83	50.780	8.342	42.767	1.00	32.08	C
ATOM	511	CZ TYR A 83	49.550	7.724	42.677	1.00	32.19	C
ATOM	512	OH TYR A 83	49.471	6.423	42.229	1.00	32.58	O
ATOM	513	C TYR A 83	50.408	13.538	45.629	1.00	29.65	C
ATOM	514	O TYR A 83	49.520	14.385	45.519	1.00	29.22	O
ATOM	515	N PRO A 84	51.685	13.872	45.875	1.00	29.11	N
ATOM	516	CD PRO A 84	52.799	13.019	46.335	1.00	29.50	C
ATOM	517	CA PRO A 84	52.034	15.291	45.966	1.00	28.54	C
ATOM	518	CB PRO A 84	53.539	15.257	46.206	1.00	29.05	C
ATOM	519	CG PRO A 84	53.700	14.012	47.048	1.00	29.74	C
ATOM	520	C PRO A 84	51.681	15.839	44.579	1.00	27.78	C
ATOM	521	O PRO A 84	51.882	15.156	43.576	1.00	27.15	O
ATOM	522	N LEU A 85	51.151	17.053	44.518	1.00	27.35	N
ATOM	523	CA LEU A 85	50.741	17.626	43.239	1.00	26.90	C
ATOM	524	CB LEU A 85	49.323	18.192	43.361	1.00	26.62	C
ATOM	525	CG LEU A 85	48.230	17.259	43.889	1.00	26.34	C
ATOM	526	CD1 LEU A 85	46.923	18.030	44.073	1.00	26.18	C
ATOM	527	CD2 LEU A 85	48.049	16.102	42.926	1.00	26.09	C
ATOM	528	C LEU A 85	51.661	18.725	42.731	1.00	26.93	C
ATOM	529	O LEU A 85	52.148	19.540	43.501	1.00	26.47	O
ATOM	530	N ALA A 86	51.908	18.731	41.428	1.00	27.16	N
ATOM	531	CA ALA A 86	52.727	19.772	40.828	1.00	27.51	C
ATOM	532	CB ALA A 86	53.411	19.244	39.560	1.00	27.79	C
ATOM	533	C ALA A 86	51.775	20.922	40.484	1.00	27.57	C
ATOM	534	O ALA A 86	52.149	22.091	40.512	1.00	28.41	O
ATOM	535	N LEU A 87	50.524	20.581	40.189	1.00	27.71	N
ATOM	536	CA LEU A 87	49.530	21.582	39.824	1.00	27.37	C

Figure 10K

ATOM	537	CB	LEU	A	87	49.866	22.133	38.430	1.00	28.02	C
ATOM	538	CG	LEU	A	87	48.916	23.067	37.676	1.00	27.98	C
ATOM	539	CD1	LEU	A	87	49.721	23.825	36.624	1.00	28.10	C
ATOM	540	CD2	LEU	A	87	47.788	22.274	37.013	1.00	28.31	C
ATOM	541	C	LEU	A	87	48.134	20.972	39.817	1.00	27.07	C
ATOM	542	O	LEU	A	87	47.973	19.779	39.558	1.00	27.09	O
ATOM	543	N	ALA	A	88	47.132	21.797	40.101	1.00	26.70	N
ATOM	544	CA	ALA	A	88	45.745	21.353	40.106	1.00	26.24	C
ATOM	545	CB	ALA	A	88	45.218	21.285	41.528	1.00	26.54	C
ATOM	546	C	ALA	A	88	44.876	22.299	39.282	1.00	26.33	C
ATOM	547	O	ALA	A	88	45.040	23.522	39.326	1.00	25.93	O
ATOM	548	N	VAL	A	89	43.949	21.719	38.532	1.00	26.38	N
ATOM	549	CA	VAL	A	89	43.035	22.493	37.704	1.00	26.48	C
ATOM	550	CB	VAL	A	89	43.100	22.057	36.225	1.00	26.98	C
ATOM	551	CG1	VAL	A	89	42.184	22.945	35.388	1.00	26.51	C
ATOM	552	CG2	VAL	A	89	44.535	22.111	35.719	1.00	26.37	C
ATOM	553	C	VAL	A	89	41.605	22.285	38.174	1.00	26.45	C
ATOM	554	O	VAL	A	89	41.128	21.153	38.248	1.00	26.61	O
ATOM	555	N	VAL	A	90	40.930	23.375	38.513	1.00	26.03	N
ATOM	556	CA	VAL	A	90	39.543	23.300	38.928	1.00	26.42	C
ATOM	557	CB	VAL	A	90	39.195	24.432	39.916	1.00	26.37	C
ATOM	558	CG1	VAL	A	90	37.744	24.315	40.361	1.00	26.82	C
ATOM	559	CG2	VAL	A	90	40.123	24.355	41.137	1.00	26.76	C
ATOM	560	C	VAL	A	90	38.787	23.490	37.615	1.00	26.74	C
ATOM	561	O	VAL	A	90	38.371	24.601	37.288	1.00	26.48	O
ATOM	562	N	ALA	A	91	38.657	22.405	36.853	1.00	26.82	N
ATOM	563	CA	ALA	A	91	37.986	22.438	35.549	1.00	27.63	C
ATOM	564	CB	ALA	A	91	38.468	21.276	34.694	1.00	27.04	C
ATOM	565	C	ALA	A	91	36.488	22.356	35.758	1.00	28.11	C
ATOM	566	O	ALA	A	91	35.820	21.459	35.242	1.00	27.96	O
ATOM	567	N	CYS	A	92	35.979	23.327	36.509	1.00	29.18	N
ATOM	568	CA	CYS	A	92	34.579	23.399	36.882	1.00	30.48	C
ATOM	569	CB	CYS	A	92	34.402	22.573	38.163	1.00	30.27	C
ATOM	570	SG	CYS	A	92	32.819	22.659	38.984	1.00	30.88	S
ATOM	571	C	CYS	A	92	34.219	24.867	37.137	1.00	31.39	C
ATOM	572	O	CYS	A	92	34.730	25.473	38.075	1.00	31.00	O
ATOM	573	N	ASN	A	93	33.341	25.436	36.310	1.00	32.97	N
ATOM	574	CA	ASN	A	93	32.937	26.837	36.470	1.00	34.50	C
ATOM	575	CB	ASN	A	93	32.043	27.283	35.306	1.00	35.30	C
ATOM	576	CG	ASN	A	93	32.770	27.298	33.982	1.00	36.40	C
ATOM	577	OD1	ASN	A	93	32.983	26.251	33.360	1.00	37.59	O
ATOM	578	ND2	ASN	A	93	33.165	28.489	33.539	1.00	36.95	N
ATOM	579	C	ASN	A	93	32.218	27.128	37.784	1.00	35.02	C
ATOM	580	O	ASN	A	93	32.473	28.151	38.426	1.00	35.62	O
ATOM	581	N	THR	A	94	31.317	26.236	38.183	1.00	35.16	N
ATOM	582	CA	THR	A	94	30.567	26.418	39.420	1.00	36.16	C
ATOM	583	CB	THR	A	94	29.417	25.389	39.539	1.00	36.42	C
ATOM	584	OG1	THR	A	94	29.934	24.063	39.353	1.00	36.99	O
ATOM	585	CG2	THR	A	94	28.354	25.662	38.493	1.00	36.28	C
ATOM	586	C	THR	A	94	31.436	26.311	40.668	1.00	36.39	C
ATOM	587	O	THR	A	94	30.972	26.572	41.774	1.00	37.04	O
ATOM	588	N	ALA	A	95	32.695	25.928	40.501	1.00	36.62	N
ATOM	589	CA	ALA	A	95	33.587	25.803	41.654	1.00	37.07	C
ATOM	590	CB	ALA	A	95	34.093	24.363	41.780	1.00	36.87	C
ATOM	591	C	ALA	A	95	34.769	26.757	41.599	1.00	37.26	C
ATOM	592	O	ALA	A	95	35.183	27.291	42.626	1.00	37.43	O
ATOM	593	N	SER	A	96	35.304	26.978	40.405	1.00	37.85	N
ATOM	594	CA	SER	A	96	36.464	27.844	40.245	1.00	38.98	C

Figure 10L

ATOM	595	CB	SER A 96	36.701	28.167	38.772	1.00	38.43	C
ATOM	596	OG	SER A 96	37.534	27.193	38.172	1.00	39.50	O
ATOM	597	C	SER A 96	36.403	29.140	41.031	1.00	39.55	C
ATOM	598	O	SER A 96	37.056	29.276	42.064	1.00	40.03	O
ATOM	599	N	THR A 97	35.621	30.090	40.540	1.00	40.03	N
ATOM	600	CA	THR A 97	35.507	31.386	41.193	1.00	40.80	C
ATOM	601	CB	THR A 97	34.206	32.086	40.782	1.00	41.54	C
ATOM	602	OG1	THR A 97	33.079	31.351	41.283	1.00	43.65	O
ATOM	603	CG2	THR A 97	34.116	32.152	39.266	1.00	42.47	C
ATOM	604	C	THR A 97	35.580	31.334	42.718	1.00	40.13	C
ATOM	605	O	THR A 97	36.587	31.730	43.322	1.00	40.25	O
ATOM	606	N	VAL A 98	34.524	30.819	43.333	1.00	38.98	N
ATOM	607	CA	VAL A 98	34.440	30.749	44.783	1.00	37.63	C
ATOM	608	CB	VAL A 98	33.074	30.183	45.210	1.00	38.05	C
ATOM	609	CG1	VAL A 98	31.951	31.032	44.616	1.00	37.94	C
ATOM	610	CG2	VAL A 98	32.949	28.735	44.752	1.00	37.58	C
ATOM	611	C	VAL A 98	35.521	29.956	45.520	1.00	36.84	C
ATOM	612	O	VAL A 98	35.789	30.230	46.689	1.00	36.41	O
ATOM	613	N	SER A 99	36.145	28.989	44.848	1.00	35.65	N
ATOM	614	CA	SER A 99	37.149	28.136	45.491	1.00	34.62	C
ATOM	615	CB	SER A 99	36.982	26.688	45.001	1.00	34.67	C
ATOM	616	OG	SER A 99	35.697	26.177	45.311	1.00	35.45	O
ATOM	617	C	SER A 99	38.626	28.504	45.353	1.00	33.65	C
ATOM	618	O	SER A 99	39.443	28.075	46.165	1.00	33.61	O
ATOM	619	N	LEU A 100	38.974	29.278	44.335	1.00	32.41	N
ATOM	620	CA	LEU A 100	40.371	29.635	44.103	1.00	31.86	C
ATOM	621	CB	LEU A 100	40.476	30.501	42.844	1.00	31.39	C
ATOM	622	CG	LEU A 100	40.052	29.816	41.538	1.00	31.77	C
ATOM	623	CD1	LEU A 100	40.345	30.741	40.359	1.00	31.20	C
ATOM	624	CD2	LEU A 100	40.813	28.498	41.363	1.00	31.65	C
ATOM	625	C	LEU A 100	41.131	30.286	45.272	1.00	31.53	C
ATOM	626	O	LEU A 100	42.227	29.851	45.620	1.00	31.21	O
ATOM	627	N	PRO A 101	40.570	31.336	45.887	1.00	31.41	N
ATOM	628	CD	PRO A 101	39.378	32.122	45.526	1.00	31.74	C
ATOM	629	CA	PRO A 101	41.289	31.958	47.006	1.00	31.39	C
ATOM	630	CB	PRO A 101	40.312	33.027	47.488	1.00	31.54	C
ATOM	631	CG	PRO A 101	39.657	33.455	46.202	1.00	31.94	C
ATOM	632	C	PRO A 101	41.642	30.960	48.111	1.00	31.01	C
ATOM	633	O	PRO A 101	42.784	30.908	48.574	1.00	30.97	O
ATOM	634	N	ALA A 102	40.657	30.168	48.522	1.00	30.66	N
ATOM	635	CA	ALA A 102	40.845	29.180	49.579	1.00	30.28	C
ATOM	636	CB	ALA A 102	39.507	28.531	49.927	1.00	30.65	C
ATOM	637	C	ALA A 102	41.867	28.110	49.210	1.00	29.99	C
ATOM	638	O	ALA A 102	42.675	27.692	50.049	1.00	29.77	O
ATOM	639	N	LEU A 103	41.833	27.668	47.957	1.00	29.36	N
ATOM	640	CA	LEU A 103	42.764	26.650	47.483	1.00	28.42	C
ATOM	641	CB	LEU A 103	42.322	26.126	46.119	1.00	27.97	C
ATOM	642	CG	LEU A 103	41.031	25.302	46.119	1.00	27.49	C
ATOM	643	CD1	LEU A 103	40.535	25.118	44.684	1.00	26.76	C
ATOM	644	CD2	LEU A 103	41.286	23.957	46.790	1.00	26.64	C
ATOM	645	C	LEU A 103	44.184	27.189	47.378	1.00	28.66	C
ATOM	646	O	LEU A 103	45.145	26.503	47.722	1.00	27.90	O
ATOM	647	N	ARG A 104	44.315	28.424	46.911	1.00	28.64	N
ATOM	648	CA	ARG A 104	45.630	29.021	46.761	1.00	29.38	C
ATOM	649	CB	ARG A 104	45.540	30.265	45.875	1.00	29.44	C
ATOM	650	CG	ARG A 104	45.362	29.904	44.407	1.00	30.55	C
ATOM	651	CD	ARG A 104	44.967	31.091	43.526	1.00	31.09	C
ATOM	652	NE	ARG A 104	44.866	30.655	42.134	1.00	31.83	N

Figure 10M

ATOM	653	CZ	ARG A 104	44.212	31.307	41.175	1.00	31.39	C
ATOM	654	NH1	ARG A 104	43.585	32.442	41.439	1.00	31.47	N
ATOM	655	NH2	ARG A 104	44.180	30.810	39.950	1.00	30.99	N
ATOM	656	C	ARG A 104	46.261	29.346	48.104	1.00	29.24	C
ATOM	657	O	ARG A 104	47.477	29.439	48.213	1.00	28.87	O
ATOM	658	N	GLU A 105	45.430	29.507	49.126	1.00	29.80	N
ATOM	659	CA	GLU A 105	45.928	29.791	50.465	1.00	31.03	C
ATOM	660	CB	GLU A 105	44.831	30.424	51.328	1.00	32.41	C
ATOM	661	CG	GLU A 105	45.138	30.405	52.827	1.00	34.95	C
ATOM	662	CD	GLU A 105	46.373	31.213	53.190	1.00	36.39	C
ATOM	663	OE1	GLU A 105	46.929	30.992	54.294	1.00	37.63	O
ATOM	664	OE2	GLU A 105	46.785	32.072	52.379	1.00	37.49	O
ATOM	665	C	GLU A 105	46.408	28.503	51.129	1.00	30.44	C
ATOM	666	O	GLU A 105	47.463	28.476	51.761	1.00	31.06	O
ATOM	667	N	LYS A 106	45.648	27.428	50.972	1.00	29.73	N
ATOM	668	CA	LYS A 106	46.023	26.175	51.605	1.00	29.26	C
ATOM	669	CB	LYS A 106	44.806	25.245	51.723	1.00	29.20	C
ATOM	670	CG	LYS A 106	45.091	24.005	52.595	1.00	29.25	C
ATOM	671	CD	LYS A 106	43.840	23.174	52.882	1.00	28.92	C
ATOM	672	CE	LYS A 106	44.150	22.010	53.840	1.00	28.67	C
ATOM	673	NZ	LYS A 106	42.965	21.124	54.082	1.00	28.66	N
ATOM	674	C	LYS A 106	47.168	25.410	50.943	1.00	29.05	C
ATOM	675	O	LYS A 106	47.993	24.806	51.635	1.00	28.51	O
ATOM	676	N	PHE A 107	47.240	25.445	49.617	1.00	28.37	N
ATOM	677	CA	PHE A 107	48.270	24.690	48.925	1.00	28.51	C
ATOM	678	CB	PHE A 107	47.627	23.857	47.815	1.00	28.11	C
ATOM	679	CG	PHE A 107	46.516	22.973	48.308	1.00	27.86	C
ATOM	680	CD1	PHE A 107	45.185	23.346	48.147	1.00	27.53	C
ATOM	681	CD2	PHE A 107	46.805	21.795	48.991	1.00	27.75	C
ATOM	682	CE1	PHE A 107	44.156	22.560	48.665	1.00	27.08	C
ATOM	683	CE2	PHE A 107	45.781	20.997	49.514	1.00	27.41	C
ATOM	684	CZ	PHE A 107	44.457	21.383	49.350	1.00	27.01	C
ATOM	685	C	PHE A 107	49.443	25.476	48.376	1.00	28.85	C
ATOM	686	O	PHE A 107	49.337	26.669	48.096	1.00	28.61	O
ATOM	687	N	ASP A 108	50.566	24.781	48.225	1.00	29.16	N
ATOM	688	CA	ASP A 108	51.781	25.394	47.716	1.00	29.72	C
ATOM	689	CB	ASP A 108	52.925	25.180	48.700	1.00	29.47	C
ATOM	690	CG	ASP A 108	52.721	25.959	49.973	1.00	29.74	C
ATOM	691	OD1	ASP A 108	52.567	27.196	49.880	1.00	29.19	O
ATOM	692	OD2	ASP A 108	52.700	25.344	51.058	1.00	29.72	O
ATOM	693	C	ASP A 108	52.163	24.914	46.333	1.00	29.83	C
ATOM	694	O	ASP A 108	53.335	24.699	46.018	1.00	30.36	O
ATOM	695	N	PHE A 109	51.145	24.724	45.511	1.00	29.48	N
ATOM	696	CA	PHE A 109	51.345	24.342	44.128	1.00	29.36	C
ATOM	697	CB	PHE A 109	51.079	22.844	43.895	1.00	28.81	C
ATOM	698	CG	PHE A 109	49.781	22.348	44.454	1.00	29.18	C
ATOM	699	CD1	PHE A 109	48.568	22.679	43.851	1.00	29.09	C
ATOM	700	CD2	PHE A 109	49.772	21.525	45.579	1.00	28.19	C
ATOM	701	CE1	PHE A 109	47.363	22.194	44.364	1.00	29.20	C
ATOM	702	CE2	PHE A 109	48.580	21.037	46.099	1.00	28.87	C
ATOM	703	CZ	PHE A 109	47.368	21.369	45.492	1.00	28.19	C
ATOM	704	C	PHE A 109	50.358	25.232	43.397	1.00	28.99	C
ATOM	705	O	PHE A 109	49.331	25.626	43.956	1.00	28.79	O
ATOM	706	N	PRO A 110	50.673	25.600	42.153	1.00	29.04	N
ATOM	707	CD	PRO A 110	51.823	25.213	41.318	1.00	28.89	C
ATOM	708	CA	PRO A 110	49.751	26.467	41.419	1.00	29.02	C
ATOM	709	CB	PRO A 110	50.515	26.761	40.128	1.00	28.79	C
ATOM	710	CG	PRO A 110	51.326	25.525	39.929	1.00	29.59	C

Figure 10N

ATOM	711	C	PRO A 110	48.381	25.839	41.182	1.00	28.61	C
ATOM	712	O	PRO A 110	48.259	24.630	40.990	1.00	28.77	O
ATOM	713	N	VAL A 111	47.352	26.673	41.224	1.00	28.61	N
ATOM	714	CA	VAL A 111	45.989	26.215	41.002	1.00	28.17	C
ATOM	715	CB	VAL A 111	45.101	26.457	42.240	1.00	27.94	C
ATOM	716	CG1	VAL A 111	43.683	25.945	41.978	1.00	26.91	C
ATOM	717	CG2	VAL A 111	45.710	25.759	43.467	1.00	27.23	C
ATOM	718	C	VAL A 111	45.417	26.987	39.822	1.00	28.51	C
ATOM	719	O	VAL A 111	45.482	28.213	39.786	1.00	28.55	O
ATOM	720	N	VAL A 112	44.871	26.263	38.854	1.00	28.78	N
ATOM	721	CA	VAL A 112	44.284	26.892	37.679	1.00	29.08	C
ATOM	722	CB	VAL A 112	44.691	26.145	36.387	1.00	29.31	C
ATOM	723	CG1	VAL A 112	43.996	26.753	35.175	1.00	29.34	C
ATOM	724	CG2	VAL A 112	46.185	26.215	36.213	1.00	28.86	C
ATOM	725	C	VAL A 112	42.772	26.891	37.810	1.00	29.49	C
ATOM	726	O	VAL A 112	42.175	25.895	38.227	1.00	29.47	O
ATOM	727	N	GLY A 113	42.160	28.021	37.475	1.00	29.33	N
ATOM	728	CA	GLY A 113	40.719	28.132	37.551	1.00	29.94	C
ATOM	729	C	GLY A 113	40.136	28.309	36.164	1.00	30.66	C
ATOM	730	O	GLY A 113	40.873	28.407	35.180	1.00	29.81	O
ATOM	731	N	VAL A 114	38.809	28.351	36.088	1.00	31.45	N
ATOM	732	CA	VAL A 114	38.121	28.518	34.811	1.00	32.36	C
ATOM	733	CB	VAL A 114	37.509	27.204	34.315	1.00	32.77	C
ATOM	734	CG1	VAL A 114	38.587	26.138	34.165	1.00	32.86	C
ATOM	735	CG2	VAL A 114	36.425	26.756	35.276	1.00	33.24	C
ATOM	736	C	VAL A 114	36.983	29.521	34.894	1.00	32.64	C
ATOM	737	O	VAL A 114	36.178	29.505	35.833	1.00	33.94	O
ATOM	738	N	VAL A 115	36.932	30.409	33.913	1.00	31.91	N
ATOM	739	CA	VAL A 115	35.869	31.395	33.830	1.00	31.47	C
ATOM	740	CB	VAL A 115	36.368	32.820	34.173	1.00	32.15	C
ATOM	741	CG1	VAL A 115	36.717	32.908	35.652	1.00	33.28	C
ATOM	742	CG2	VAL A 115	37.579	33.169	33.330	1.00	32.44	C
ATOM	743	C	VAL A 115	35.409	31.348	32.375	1.00	30.19	C
ATOM	744	O	VAL A 115	36.202	31.048	31.483	1.00	29.34	O
ATOM	745	N	PRO A 116	34.122	31.615	32.121	1.00	29.68	N
ATOM	746	CD	PRO A 116	33.044	31.894	33.088	1.00	29.83	C
ATOM	747	CA	PRO A 116	33.610	31.590	30.743	1.00	28.99	C
ATOM	748	CB	PRO A 116	32.195	32.141	30.894	1.00	29.53	C
ATOM	749	CG	PRO A 116	31.793	31.619	32.267	1.00	29.52	C
ATOM	750	C	PRO A 116	34.482	32.445	29.826	1.00	28.73	C
ATOM	751	O	PRO A 116	34.865	33.560	30.194	1.00	28.39	O
ATOM	752	N	ALA A 117	34.786	31.921	28.639	1.00	27.82	N
ATOM	753	CA	ALA A 117	35.638	32.607	27.663	1.00	28.21	C
ATOM	754	CB	ALA A 117	36.125	31.607	26.614	1.00	26.94	C
ATOM	755	C	ALA A 117	34.977	33.800	26.974	1.00	28.60	C
ATOM	756	O	ALA A 117	35.023	33.930	25.747	1.00	28.59	O
ATOM	757	N	ILE A 118	34.376	34.676	27.766	1.00	28.96	N
ATOM	758	CA	ILE A 118	33.710	35.848	27.225	1.00	29.91	C
ATOM	759	CB	ILE A 118	32.962	36.606	28.335	1.00	31.06	C
ATOM	760	CG2	ILE A 118	32.449	37.950	27.808	1.00	31.44	C
ATOM	761	CG1	ILE A 118	31.809	35.736	28.844	1.00	31.63	C
ATOM	762	CD1	ILE A 118	31.091	36.303	30.038	1.00	33.47	C
ATOM	763	C	ILE A 118	34.673	36.800	26.537	1.00	30.04	C
ATOM	764	O	ILE A 118	34.367	37.329	25.466	1.00	29.91	O
ATOM	765	N	LYS A 119	35.840	37.008	27.143	1.00	29.81	N
ATOM	766	CA	LYS A 119	36.836	37.915	26.584	1.00	30.04	C
ATOM	767	CB	LYS A 119	38.091	37.933	27.468	1.00	30.22	C
ATOM	768	CG	LYS A 119	39.130	38.955	27.020	1.00	30.96	C

Figure 10O

ATOM	769	CD	LYS A 119	40.292	39.050	27.988	1.00	31.45	C
ATOM	770	CE	LYS A 119	41.314	40.048	27.492	1.00	31.36	C
ATOM	771	NZ	LYS A 119	42.566	39.971	28.280	1.00	32.08	N
ATOM	772	C	LYS A 119	37.210	37.606	25.125	1.00	30.26	C
ATOM	773	O	LYS A 119	37.081	38.468	24.260	1.00	30.43	O
ATOM	774	N	PRO A 120	37.687	36.385	24.829	1.00	30.32	N
ATOM	775	CD	PRO A 120	38.119	35.261	25.679	1.00	30.42	C
ATOM	776	CA	PRO A 120	38.024	36.135	23.424	1.00	30.77	C
ATOM	777	CB	PRO A 120	38.743	34.782	23.469	1.00	30.78	C
ATOM	778	CG	PRO A 120	38.175	34.123	24.687	1.00	30.65	C
ATOM	779	C	PRO A 120	36.805	36.124	22.501	1.00	31.13	C
ATOM	780	O	PRO A 120	36.900	36.515	21.339	1.00	31.33	O
ATOM	781	N	ALA A 121	35.662	35.684	23.018	1.00	31.38	N
ATOM	782	CA	ALA A 121	34.447	35.632	22.214	1.00	31.88	C
ATOM	783	CB	ALA A 121	33.317	35.001	23.007	1.00	31.22	C
ATOM	784	C	ALA A 121	34.049	37.030	21.754	1.00	32.64	C
ATOM	785	O	ALA A 121	33.558	37.206	20.637	1.00	32.09	O
ATOM	786	N	ALA A 122	34.268	38.019	22.618	1.00	33.55	N
ATOM	787	CA	ALA A 122	33.931	39.405	22.305	1.00	34.91	C
ATOM	788	CB	ALA A 122	34.108	40.281	23.544	1.00	34.63	C
ATOM	789	C	ALA A 122	34.779	39.944	21.159	1.00	35.90	C
ATOM	790	O	ALA A 122	34.334	40.809	20.408	1.00	36.06	O
ATOM	791	N	ARG A 123	36.000	39.435	21.029	1.00	37.08	N
ATOM	792	CA	ARG A 123	36.901	39.866	19.962	1.00	38.64	C
ATOM	793	CB	ARG A 123	38.363	39.696	20.382	1.00	39.68	C
ATOM	794	CG	ARG A 123	38.775	40.468	21.618	1.00	41.76	C
ATOM	795	CD	ARG A 123	40.279	40.379	21.811	1.00	43.75	C
ATOM	796	NE	ARG A 123	41.000	40.999	20.701	1.00	45.71	N
ATOM	797	CZ	ARG A 123	42.320	40.959	20.547	1.00	46.46	C
ATOM	798	NH1	ARG A 123	43.071	40.321	21.435	1.00	47.45	N
ATOM	799	NH2	ARG A 123	42.891	41.564	19.512	1.00	47.03	N
ATOM	800	C	ARG A 123	36.689	39.068	18.678	1.00	39.10	C
ATOM	801	O	ARG A 123	37.252	39.405	17.636	1.00	39.34	O
ATOM	802	N	LEU A 124	35.886	38.011	18.749	1.00	39.13	N
ATOM	803	CA	LEU A 124	35.653	37.165	17.583	1.00	39.56	C
ATOM	804	CB	LEU A 124	35.776	35.686	17.975	1.00	39.49	C
ATOM	805	CG	LEU A 124	37.133	35.224	18.517	1.00	39.90	C
ATOM	806	CD1	LEU A 124	37.039	33.765	18.952	1.00	40.24	C
ATOM	807	CD2	LEU A 124	38.210	35.398	17.455	1.00	40.03	C
ATOM	808	C	LEU A 124	34.315	37.391	16.895	1.00	39.81	C
ATOM	809	O	LEU A 124	34.197	37.192	15.685	1.00	39.83	O
ATOM	810	N	THR A 125	33.311	37.807	17.659	1.00	39.86	N
ATOM	811	CA	THR A 125	31.991	38.027	17.096	1.00	40.44	C
ATOM	812	CB	THR A 125	30.981	38.482	18.179	1.00	40.32	C
ATOM	813	OG1	THR A 125	29.685	38.636	17.589	1.00	40.44	O
ATOM	814	CG2	THR A 125	31.411	39.803	18.809	1.00	40.44	C
ATOM	815	C	THR A 125	32.023	39.057	15.971	1.00	41.06	C
ATOM	816	O	THR A 125	32.777	40.028	16.022	1.00	40.79	O
ATOM	817	N	ALA A 126	31.206	38.826	14.949	1.00	41.50	N
ATOM	818	CA	ALA A 126	31.133	39.732	13.812	1.00	42.01	C
ATOM	819	CB	ALA A 126	31.214	38.943	12.507	1.00	41.90	C
ATOM	820	C	ALA A 126	29.837	40.532	13.861	1.00	42.35	C
ATOM	821	O	ALA A 126	29.798	41.685	13.427	1.00	42.99	O
ATOM	822	N	ASN A 127	28.778	39.928	14.394	1.00	41.88	N
ATOM	823	CA	ASN A 127	27.493	40.613	14.476	1.00	41.62	C
ATOM	824	CB	ASN A 127	26.350	39.641	14.147	1.00	41.84	C
ATOM	825	CG	ASN A 127	26.027	38.692	15.291	1.00	41.92	C
ATOM	826	OD1	ASN A 127	26.847	38.451	16.175	1.00	41.99	O

Figure 10P

ATOM	827	ND2 ASN A 127	24.822	38.135	15.264	1.00	41.74	N
ATOM	828	C ASN A 127	27.266	41.262	15.834	1.00	41.10	C
ATOM	829	O ASN A 127	26.241	41.902	16.066	1.00	41.43	O
ATOM	830	N GLY A 128	28.234	41.101	16.730	1.00	40.81	N
ATOM	831	CA GLY A 128	28.122	41.688	18.052	1.00	39.82	C
ATOM	832	C GLY A 128	27.185	40.965	19.004	1.00	39.18	C
ATOM	833	O GLY A 128	26.933	41.453	20.103	1.00	39.41	O
ATOM	834	N ILE A 129	26.660	39.812	18.594	1.00	38.60	N
ATOM	835	CA ILE A 129	25.757	39.044	19.451	1.00	37.56	C
ATOM	836	CB ILE A 129	24.523	38.522	18.686	1.00	37.63	C
ATOM	837	CG2 ILE A 129	23.450	38.100	19.686	1.00	37.28	C
ATOM	838	CG1 ILE A 129	23.980	39.593	17.732	1.00	38.02	C
ATOM	839	CD1 ILE A 129	23.250	40.727	18.406	1.00	38.18	C
ATOM	840	C ILE A 129	26.510	37.822	19.983	1.00	36.88	C
ATOM	841	O ILE A 129	26.787	36.882	19.241	1.00	36.65	O
ATOM	842	N VAL A 130	26.834	37.840	21.270	1.00	35.90	N
ATOM	843	CA VAL A 130	27.554	36.733	21.877	1.00	34.41	C
ATOM	844	CB VAL A 130	28.823	37.233	22.594	1.00	34.44	C
ATOM	845	CG1 VAL A 130	29.512	36.079	23.314	1.00	34.63	C
ATOM	846	CG2 VAL A 130	29.768	37.857	21.578	1.00	33.95	C
ATOM	847	C VAL A 130	26.674	35.990	22.870	1.00	33.52	C
ATOM	848	O VAL A 130	26.082	36.589	23.770	1.00	33.77	O
ATOM	849	N GLY A 131	26.583	34.679	22.695	1.00	32.38	N
ATOM	850	CA GLY A 131	25.779	33.877	23.593	1.00	31.20	C
ATOM	851	C GLY A 131	26.626	33.212	24.667	1.00	30.54	C
ATOM	852	O GLY A 131	27.799	32.903	24.453	1.00	29.56	O
ATOM	853	N LEU A 132	26.032	33.009	25.837	1.00	29.94	N
ATOM	854	CA LEU A 132	26.726	32.348	26.930	1.00	29.63	C
ATOM	855	CB LEU A 132	26.970	33.314	28.094	1.00	29.35	C
ATOM	856	CG LEU A 132	27.559	32.707	29.383	1.00	29.67	C
ATOM	857	CD1 LEU A 132	28.930	32.091	29.115	1.00	28.73	C
ATOM	858	CD2 LEU A 132	27.676	33.800	30.444	1.00	29.83	C
ATOM	859	C LEU A 132	25.870	31.189	27.402	1.00	29.56	C
ATOM	860	O LEU A 132	24.764	31.392	27.912	1.00	29.35	O
ATOM	861	N LEU A 133	26.362	29.975	27.190	1.00	29.49	N
ATOM	862	CA LEU A 133	25.658	28.776	27.632	1.00	30.26	C
ATOM	863	CB LEU A 133	25.747	27.655	26.596	1.00	29.82	C
ATOM	864	CG LEU A 133	24.832	27.685	25.382	1.00	29.97	C
ATOM	865	CD1 LEU A 133	25.087	26.431	24.561	1.00	29.36	C
ATOM	866	CD2 LEU A 133	23.370	27.738	25.831	1.00	29.56	C
ATOM	867	C LEU A 133	26.374	28.328	28.891	1.00	30.96	C
ATOM	868	O LEU A 133	27.577	28.064	28.867	1.00	30.93	O
ATOM	869	N ALA A 134	25.641	28.258	29.991	1.00	31.95	N
ATOM	870	CA ALA A 134	26.220	27.838	31.256	1.00	33.61	C
ATOM	871	CB ALA A 134	26.671	29.056	32.057	1.00	33.35	C
ATOM	872	C ALA A 134	25.157	27.080	32.022	1.00	34.73	C
ATOM	873	O ALA A 134	24.021	26.963	31.567	1.00	34.36	O
ATOM	874	N THR A 135	25.515	26.552	33.184	1.00	36.55	N
ATOM	875	CA THR A 135	24.522	25.845	33.960	1.00	38.50	C
ATOM	876	CB THR A 135	25.166	24.865	34.958	1.00	38.44	C
ATOM	877	OG1 THR A 135	24.136	24.057	35.544	1.00	38.63	O
ATOM	878	CG2 THR A 135	25.932	25.610	36.037	1.00	37.99	C
ATOM	879	C THR A 135	23.676	26.890	34.683	1.00	40.21	C
ATOM	880	O THR A 135	24.069	28.056	34.790	1.00	39.88	O
ATOM	881	N ARG A 136	22.514	26.470	35.169	1.00	42.42	N
ATOM	882	CA ARG A 136	21.592	27.374	35.840	1.00	44.95	C
ATOM	883	CB ARG A 136	20.419	26.584	36.429	1.00	44.96	C
ATOM	884	CG ARG A 136	19.310	27.468	36.958	1.00	45.04	C

Figure 10Q

ATOM	885	CD	ARG A 136	18.840	28.437	35.880	1.00	44.89	C
ATOM	886	NE	ARG A 136	18.043	29.521	36.442	1.00	45.05	N
ATOM	887	CZ	ARG A 136	17.561	30.538	35.736	1.00	44.74	C
ATOM	888	NH1	ARG A 136	17.794	30.611	34.433	1.00	44.68	N
ATOM	889	NH2	ARG A 136	16.854	31.484	36.337	1.00	44.28	N
ATOM	890	C	ARG A 136	22.226	28.242	36.921	1.00	46.64	C
ATOM	891	O	ARG A 136	21.963	29.443	36.987	1.00	46.85	O
ATOM	892	N	GLY A 137	23.064	27.637	37.759	1.00	48.47	N
ATOM	893	CA	GLY A 137	23.705	28.383	38.828	1.00	50.63	C
ATOM	894	C	GLY A 137	24.761	29.390	38.405	1.00	52.15	C
ATOM	895	O	GLY A 137	24.957	30.403	39.077	1.00	52.40	O
ATOM	896	N	THR A 138	25.439	29.122	37.295	1.00	53.81	N
ATOM	897	CA	THR A 138	26.493	30.007	36.804	1.00	55.54	C
ATOM	898	CB	THR A 138	27.342	29.297	35.732	1.00	55.54	C
ATOM	899	OG1	THR A 138	27.916	28.110	36.292	1.00	55.73	O
ATOM	900	CG2	THR A 138	28.458	30.209	35.236	1.00	55.51	C
ATOM	901	C	THR A 138	25.984	31.326	36.223	1.00	56.87	C
ATOM	902	O	THR A 138	26.685	32.337	36.264	1.00	57.03	O
ATOM	903	N	VAL A 139	24.769	31.314	35.682	1.00	58.47	N
ATOM	904	CA	VAL A 139	24.190	32.516	35.087	1.00	60.06	C
ATOM	905	CB	VAL A 139	23.136	32.151	34.009	1.00	59.85	C
ATOM	906	CG1	VAL A 139	23.805	31.438	32.846	1.00	59.91	C
ATOM	907	CG2	VAL A 139	22.055	31.273	34.613	1.00	59.77	C
ATOM	908	C	VAL A 139	23.537	33.432	36.123	1.00	61.27	C
ATOM	909	O	VAL A 139	23.011	34.495	35.783	1.00	61.39	O
ATOM	910	N	LYS A 140	23.581	33.020	37.386	1.00	62.64	N
ATOM	911	CA	LYS A 140	22.987	33.797	38.471	1.00	64.06	C
ATOM	912	CB	LYS A 140	22.045	32.902	39.285	1.00	64.35	C
ATOM	913	CG	LYS A 140	21.287	33.610	40.403	1.00	64.87	C
ATOM	914	CD	LYS A 140	20.275	32.679	41.073	1.00	65.20	C
ATOM	915	CE	LYS A 140	20.948	31.483	41.739	1.00	65.27	C
ATOM	916	NZ	LYS A 140	21.879	31.897	42.826	1.00	65.54	N
ATOM	917	C	LYS A 140	24.071	34.378	39.379	1.00	64.96	C
ATOM	918	O	LYS A 140	23.778	35.104	40.331	1.00	65.26	O
ATOM	919	N	ARG A 141	25.323	34.057	39.070	1.00	65.90	N
ATOM	920	CA	ARG A 141	26.464	34.523	39.850	1.00	66.86	C
ATOM	921	CB	ARG A 141	27.653	33.584	39.639	1.00	67.34	C
ATOM	922	CG	ARG A 141	27.501	32.230	40.306	1.00	68.13	C
ATOM	923	CD	ARG A 141	27.641	32.357	41.813	1.00	68.85	C
ATOM	924	NE	ARG A 141	27.467	31.079	42.497	1.00	69.48	N
ATOM	925	CZ	ARG A 141	26.332	30.387	42.510	1.00	69.74	C
ATOM	926	NH1	ARG A 141	25.263	30.847	41.873	1.00	69.96	N
ATOM	927	NH2	ARG A 141	26.262	29.238	43.167	1.00	69.94	N
ATOM	928	C	ARG A 141	26.889	35.946	39.511	1.00	67.23	C
ATOM	929	O	ARG A 141	26.868	36.353	38.349	1.00	67.16	O
ATOM	930	N	SER A 142	27.283	36.695	40.537	1.00	67.70	N
ATOM	931	CA	SER A 142	27.733	38.069	40.354	1.00	68.23	C
ATOM	932	CB	SER A 142	27.953	38.742	41.713	1.00	68.35	C
ATOM	933	OG	SER A 142	28.985	38.101	42.441	1.00	68.33	O
ATOM	934	C	SER A 142	29.040	38.061	39.567	1.00	68.56	C
ATOM	935	O	SER A 142	29.280	38.931	38.731	1.00	68.56	O
ATOM	936	N	TYR A 143	29.878	37.067	39.845	1.00	68.92	N
ATOM	937	CA	TYR A 143	31.164	36.921	39.171	1.00	69.28	C
ATOM	938	CB	TYR A 143	31.829	35.609	39.605	1.00	69.43	C
ATOM	939	CG	TYR A 143	33.270	35.440	39.157	1.00	69.75	C
ATOM	940	CD1	TYR A 143	33.605	35.365	37.804	1.00	69.92	C
ATOM	941	CE1	TYR A 143	34.930	35.193	37.395	1.00	69.93	C
ATOM	942	CD2	TYR A 143	34.300	35.339	40.094	1.00	69.94	C

Figure 10R

ATOM	943	CE2 TYR A 143	35.628	35.165	39.697	1.00	69.89	C
ATOM	944	CZ TYR A 143	35.935	35.093	38.346	1.00	69.96	C
ATOM	945	OH TYR A 143	37.243	34.918	37.950	1.00	69.93	O
ATOM	946	C TYR A 143	30.945	36.916	37.659	1.00	69.53	C
ATOM	947	O TYR A 143	31.741	37.474	36.900	1.00	69.51	O
ATOM	948	N THR A 144	29.857	36.286	37.229	1.00	69.65	N
ATOM	949	CA THR A 144	29.539	36.207	35.811	1.00	70.00	C
ATOM	950	CB THR A 144	28.400	35.200	35.553	1.00	69.84	C
ATOM	951	OG1 THR A 144	28.718	33.944	36.168	1.00	69.88	O
ATOM	952	CG2 THR A 144	28.210	34.987	34.056	1.00	69.88	C
ATOM	953	C THR A 144	29.123	37.577	35.277	1.00	70.22	C
ATOM	954	O THR A 144	29.803	38.149	34.424	1.00	70.09	O
ATOM	955	N HIS A 145	28.011	38.096	35.794	1.00	70.56	N
ATOM	956	CA HIS A 145	27.484	39.395	35.378	1.00	70.96	C
ATOM	957	CB HIS A 145	26.435	39.893	36.380	1.00	71.08	C
ATOM	958	CG HIS A 145	25.333	38.916	36.643	1.00	71.36	C
ATOM	959	CD2 HIS A 145	24.826	38.435	37.803	1.00	71.32	C
ATOM	960	ND1 HIS A 145	24.602	38.327	35.633	1.00	71.38	N
ATOM	961	CE1 HIS A 145	23.694	37.525	36.160	1.00	71.57	C
ATOM	962	NE2 HIS A 145	23.809	37.572	37.475	1.00	71.52	N
ATOM	963	C HIS A 145	28.582	40.446	35.245	1.00	71.08	C
ATOM	964	O HIS A 145	28.543	41.296	34.354	1.00	71.07	O
ATOM	965	N GLU A 146	29.559	40.381	36.142	1.00	71.21	N
ATOM	966	CA GLU A 146	30.671	41.321	36.139	1.00	71.44	C
ATOM	967	CB GLU A 146	31.480	41.165	37.428	1.00	71.84	C
ATOM	968	CG GLU A 146	30.672	41.443	38.688	1.00	72.39	C
ATOM	969	CD GLU A 146	31.393	41.024	39.956	1.00	72.71	C
ATOM	970	OE1 GLU A 146	30.792	41.143	41.043	1.00	73.01	O
ATOM	971	OE2 GLU A 146	32.558	40.576	39.868	1.00	72.85	O
ATOM	972	C GLU A 146	31.575	41.116	34.930	1.00	71.35	C
ATOM	973	O GLU A 146	31.878	42.063	34.206	1.00	71.49	O
ATOM	974	N LEU A 147	32.004	39.876	34.714	1.00	71.27	N
ATOM	975	CA LEU A 147	32.874	39.556	33.589	1.00	71.04	C
ATOM	976	CB LEU A 147	33.146	38.050	33.546	1.00	71.09	C
ATOM	977	CG LEU A 147	34.138	37.538	32.498	1.00	71.03	C
ATOM	978	CD1 LEU A 147	35.511	38.141	32.744	1.00	70.98	C
ATOM	979	CD2 LEU A 147	34.213	36.021	32.574	1.00	71.22	C
ATOM	980	C LEU A 147	32.232	40.000	32.277	1.00	70.90	C
ATOM	981	O LEU A 147	32.914	40.466	31.364	1.00	70.81	O
ATOM	982	N ILE A 148	30.914	39.855	32.198	1.00	70.62	N
ATOM	983	CA ILE A 148	30.163	40.233	31.008	1.00	70.53	C
ATOM	984	CB ILE A 148	28.669	39.878	31.172	1.00	70.38	C
ATOM	985	CG2 ILE A 148	27.858	40.466	30.025	1.00	70.25	C
ATOM	986	CG1 ILE A 148	28.506	38.358	31.229	1.00	70.30	C
ATOM	987	CD1 ILE A 148	27.075	37.894	31.422	1.00	70.22	C
ATOM	988	C ILE A 148	30.285	41.723	30.701	1.00	70.59	C
ATOM	989	O ILE A 148	30.228	42.135	29.543	1.00	70.52	O
ATOM	990	N ALA A 149	30.457	42.527	31.743	1.00	70.67	N
ATOM	991	CA ALA A 149	30.579	43.967	31.573	1.00	70.58	C
ATOM	992	CB ALA A 149	29.961	44.681	32.769	1.00	70.60	C
ATOM	993	C ALA A 149	32.034	44.392	31.402	1.00	70.54	C
ATOM	994	O ALA A 149	32.323	45.395	30.747	1.00	70.64	O
ATOM	995	N ARG A 150	32.948	43.620	31.979	1.00	70.38	N
ATOM	996	CA ARG A 150	34.370	43.938	31.906	1.00	70.26	C
ATOM	997	CB ARG A 150	35.140	43.138	32.964	1.00	70.67	C
ATOM	998	CG ARG A 150	36.625	43.473	33.034	1.00	71.26	C
ATOM	999	CD ARG A 150	37.341	42.765	34.186	1.00	71.83	C
ATOM	1000	NE ARG A 150	36.910	43.228	35.505	1.00	72.23	N

Figure 10S

ATOM	1001	CZ	ARG A 150	35.813	42.811	36.134	1.00	72.55	C
ATOM	1002	NH1	ARG A 150	35.017	41.907	35.572	1.00	72.75	N
ATOM	1003	NH2	ARG A 150	35.511	43.299	37.331	1.00	72.57	N
ATOM	1004	C	ARG A 150	35.024	43.735	30.536	1.00	69.94	C
ATOM	1005	O	ARG A 150	35.754	44.611	30.063	1.00	69.86	O
ATOM	1006	N	PHE A 151	34.773	42.595	29.895	1.00	69.42	N
ATOM	1007	CA	PHE A 151	35.380	42.329	28.591	1.00	68.83	C
ATOM	1008	CB	PHE A 151	36.232	41.055	28.644	1.00	68.80	C
ATOM	1009	CG	PHE A 151	37.376	41.128	29.616	1.00	68.86	C
ATOM	1010	CD1	PHE A 151	37.245	40.621	30.905	1.00	68.95	C
ATOM	1011	CD2	PHE A 151	38.583	41.714	29.247	1.00	68.94	C
ATOM	1012	CE1	PHE A 151	38.302	40.696	31.813	1.00	68.85	C
ATOM	1013	CE2	PHE A 151	39.645	41.794	30.148	1.00	68.87	C
ATOM	1014	CZ	PHE A 151	39.503	41.284	31.432	1.00	68.86	C
ATOM	1015	C	PHE A 151	34.400	42.221	27.426	1.00	68.31	C
ATOM	1016	O	PHE A 151	34.789	41.836	26.324	1.00	68.27	O
ATOM	1017	N	ALA A 152	33.139	42.564	27.661	1.00	67.70	N
ATOM	1018	CA	ALA A 152	32.136	42.498	26.605	1.00	67.16	C
ATOM	1019	CB	ALA A 152	31.309	41.231	26.757	1.00	67.17	C
ATOM	1020	C	ALA A 152	31.229	43.725	26.621	1.00	66.73	C
ATOM	1021	O	ALA A 152	30.010	43.613	26.510	1.00	66.67	O
ATOM	1022	N	ASN A 153	31.838	44.899	26.751	1.00	66.39	N
ATOM	1023	CA	ASN A 153	31.098	46.156	26.791	1.00	65.89	C
ATOM	1024	CB	ASN A 153	31.966	47.243	27.436	1.00	66.36	C
ATOM	1025	CG	ASN A 153	31.191	48.517	27.732	1.00	66.81	C
ATOM	1026	OD1	ASN A 153	31.761	49.509	28.191	1.00	66.98	O
ATOM	1027	ND2	ASN A 153	29.886	48.495	27.478	1.00	66.94	N
ATOM	1028	C	ASN A 153	30.669	46.600	25.392	1.00	65.27	C
ATOM	1029	O	ASN A 153	29.718	47.364	25.237	1.00	65.39	O
ATOM	1030	N	GLU A 154	31.369	46.111	24.374	1.00	64.45	N
ATOM	1031	CA	GLU A 154	31.063	46.476	22.997	1.00	63.52	C
ATOM	1032	CB	GLU A 154	32.366	46.632	22.204	1.00	64.22	C
ATOM	1033	CG	GLU A 154	33.491	45.686	22.626	1.00	65.05	C
ATOM	1034	CD	GLU A 154	33.119	44.220	22.493	1.00	65.51	C
ATOM	1035	OE1	GLU A 154	32.757	43.794	21.373	1.00	65.78	O
ATOM	1036	OE2	GLU A 154	33.193	43.495	23.510	1.00	65.61	O
ATOM	1037	C	GLU A 154	30.121	45.519	22.269	1.00	62.47	C
ATOM	1038	O	GLU A 154	29.863	45.687	21.074	1.00	62.51	O
ATOM	1039	N	CYS A 155	29.602	44.522	22.981	1.00	60.87	N
ATOM	1040	CA	CYS A 155	28.684	43.561	22.373	1.00	59.19	C
ATOM	1041	CB	CYS A 155	29.437	42.294	21.950	1.00	59.45	C
ATOM	1042	SG	CYS A 155	30.164	41.355	23.315	1.00	59.76	S
ATOM	1043	C	CYS A 155	27.564	43.192	23.337	1.00	57.82	C
ATOM	1044	O	CYS A 155	27.679	43.403	24.541	1.00	57.62	O
ATOM	1045	N	GLN A 156	26.477	42.645	22.802	1.00	56.31	N
ATOM	1046	CA	GLN A 156	25.353	42.249	23.637	1.00	54.79	C
ATOM	1047	CB	GLN A 156	24.024	42.538	22.932	1.00	55.37	C
ATOM	1048	CG	GLN A 156	23.782	41.739	21.671	1.00	56.39	C
ATOM	1049	CD	GLN A 156	22.406	41.995	21.084	1.00	57.13	C
ATOM	1050	OE1	GLN A 156	22.079	43.123	20.703	1.00	57.59	O
ATOM	1051	NE2	GLN A 156	21.590	40.946	21.011	1.00	57.49	N
ATOM	1052	C	GLN A 156	25.457	40.767	23.976	1.00	53.29	C
ATOM	1053	O	GLN A 156	25.692	39.929	23.107	1.00	53.00	O
ATOM	1054	N	ILE A 157	25.275	40.453	25.252	1.00	51.67	N
ATOM	1055	CA	ILE A 157	25.372	39.081	25.720	1.00	49.85	C
ATOM	1056	CB	ILE A 157	26.185	39.009	27.030	1.00	50.01	C
ATOM	1057	CG2	ILE A 157	26.243	37.575	27.537	1.00	50.23	C
ATOM	1058	CG1	ILE A 157	27.589	39.570	26.801	1.00	50.25	C

Figure 10T

ATOM	1059	CD1 ILE A 157	28.382	38.852	25.727	1.00	50.65	C
ATOM	1060	C ILE A 157	24.021	38.430	25.958	1.00	48.42	C
ATOM	1061	O ILE A 157	23.185	38.955	26.689	1.00	48.14	O
ATOM	1062	N GLU A 158	23.819	37.279	25.328	1.00	46.69	N
ATOM	1063	CA GLU A 158	22.589	36.518	25.481	1.00	45.32	C
ATOM	1064	CB GLU A 158	22.104	35.996	24.127	1.00	45.68	C
ATOM	1065	CG GLU A 158	21.695	37.070	23.136	1.00	46.58	C
ATOM	1066	CD GLU A 158	20.560	37.931	23.652	1.00	47.34	C
ATOM	1067	OE1 GLU A 158	19.576	37.369	24.179	1.00	47.28	O
ATOM	1068	OE2 GLU A 158	20.650	39.169	23.525	1.00	48.19	O
ATOM	1069	C GLU A 158	22.920	35.336	26.385	1.00	43.98	C
ATOM	1070	O GLU A 158	23.606	34.407	25.963	1.00	43.50	O
ATOM	1071	N MET A 159	22.446	35.378	27.626	1.00	42.74	N
ATOM	1072	CA MET A 159	22.711	34.295	28.570	1.00	41.56	C
ATOM	1073	CB MET A 159	22.798	34.815	30.004	1.00	42.39	C
ATOM	1074	CG MET A 159	24.088	35.514	30.371	1.00	44.11	C
ATOM	1075	SD MET A 159	24.267	35.526	32.176	1.00	46.60	S
ATOM	1076	CE MET A 159	22.851	36.541	32.649	1.00	46.03	C
ATOM	1077	C MET A 159	21.648	33.218	28.532	1.00	40.26	C
ATOM	1078	O MET A 159	20.464	33.501	28.365	1.00	39.98	O
ATOM	1079	N LEU A 160	22.083	31.978	28.704	1.00	38.69	N
ATOM	1080	CA LEU A 160	21.172	30.848	28.721	1.00	37.59	C
ATOM	1081	CB LEU A 160	21.018	30.279	27.305	1.00	37.60	C
ATOM	1082	CG LEU A 160	19.784	29.422	27.024	1.00	37.90	C
ATOM	1083	CD1 LEU A 160	19.650	29.202	25.519	1.00	37.83	C
ATOM	1084	CD2 LEU A 160	19.890	28.097	27.761	1.00	37.80	C
ATOM	1085	C LEU A 160	21.750	29.800	29.677	1.00	36.65	C
ATOM	1086	O LEU A 160	22.753	29.151	29.374	1.00	36.13	O
ATOM	1087	N GLY A 161	21.125	29.663	30.844	1.00	35.74	N
ATOM	1088	CA GLY A 161	21.586	28.699	31.831	1.00	34.53	C
ATOM	1089	C GLY A 161	20.761	27.429	31.760	1.00	33.81	C
ATOM	1090	O GLY A 161	19.531	27.483	31.773	1.00	33.71	O
ATOM	1091	N SER A 162	21.424	26.281	31.688	1.00	32.70	N
ATOM	1092	CA SER A 162	20.701	25.018	31.599	1.00	31.67	C
ATOM	1093	CB SER A 162	20.570	24.587	30.134	1.00	30.98	C
ATOM	1094	OG SER A 162	19.993	23.293	30.042	1.00	30.57	O
ATOM	1095	C SER A 162	21.317	23.873	32.386	1.00	31.01	C
ATOM	1096	O SER A 162	22.365	23.346	32.016	1.00	30.76	O
ATOM	1097	N ALA A 163	20.650	23.477	33.464	1.00	30.33	N
ATOM	1098	CA ALA A 163	21.125	22.369	34.273	1.00	29.58	C
ATOM	1099	CB ALA A 163	20.385	22.341	35.603	1.00	30.07	C
ATOM	1100	C ALA A 163	20.856	21.080	33.489	1.00	29.44	C
ATOM	1101	O ALA A 163	21.569	20.089	33.631	1.00	28.92	O
ATOM	1102	N GLU A 164	19.825	21.106	32.649	1.00	29.32	N
ATOM	1103	CA GLU A 164	19.476	19.936	31.853	1.00	29.78	C
ATOM	1104	CB GLU A 164	18.172	20.184	31.095	1.00	31.44	C
ATOM	1105	CG GLU A 164	17.655	18.951	30.371	1.00	34.82	C
ATOM	1106	CD GLU A 164	16.325	19.187	29.679	1.00	36.46	C
ATOM	1107	OE1 GLU A 164	15.678	20.222	29.958	1.00	38.07	O
ATOM	1108	OE2 GLU A 164	15.924	18.327	28.864	1.00	37.79	O
ATOM	1109	C GLU A 164	20.582	19.575	30.859	1.00	29.30	C
ATOM	1110	O GLU A 164	20.847	18.399	30.596	1.00	28.77	O
ATOM	1111	N MET A 165	21.232	20.587	30.300	1.00	28.45	N
ATOM	1112	CA MET A 165	22.298	20.317	29.345	1.00	28.20	C
ATOM	1113	CB MET A 165	22.778	21.620	28.710	1.00	28.91	C
ATOM	1114	CG MET A 165	23.570	21.398	27.431	1.00	30.59	C
ATOM	1115	SD MET A 165	24.035	22.940	26.620	1.00	31.94	S
ATOM	1116	CE MET A 165	22.494	23.418	25.882	1.00	31.97	C

Figure 10U

ATOM	1117	C	MET A 165	23.454	19.606	30.050	1.00	27.54	C
ATOM	1118	O	MET A 165	24.131	18.758	29.463	1.00	27.24	O
ATOM	1119	N	VAL A 166	23.678	19.952	31.314	1.00	26.73	N
ATOM	1120	CA	VAL A 166	24.740	19.311	32.073	1.00	26.74	C
ATOM	1121	CB	VAL A 166	24.841	19.883	33.500	1.00	26.61	C
ATOM	1122	CG1	VAL A 166	25.928	19.145	34.277	1.00	26.96	C
ATOM	1123	CG2	VAL A 166	25.149	21.373	33.441	1.00	26.49	C
ATOM	1124	C	VAL A 166	24.424	17.820	32.152	1.00	27.07	C
ATOM	1125	O	VAL A 166	25.301	16.980	31.972	1.00	26.02	O
ATOM	1126	N	GLU A 167	23.158	17.506	32.417	1.00	27.89	N
ATOM	1127	CA	GLU A 167	22.714	16.121	32.517	1.00	29.12	C
ATOM	1128	CB	GLU A 167	21.260	16.062	33.002	1.00	31.04	C
ATOM	1129	CG	GLU A 167	21.099	16.378	34.471	1.00	34.37	C
ATOM	1130	CD	GLU A 167	22.033	15.552	35.344	1.00	36.89	C
ATOM	1131	OE1	GLU A 167	22.130	14.321	35.130	1.00	38.46	O
ATOM	1132	OE2	GLU A 167	22.675	16.130	36.249	1.00	38.74	O
ATOM	1133	C	GLU A 167	22.842	15.390	31.189	1.00	28.28	C
ATOM	1134	O	GLU A 167	23.150	14.200	31.153	1.00	28.26	O
ATOM	1135	N	LEU A 168	22.598	16.100	30.095	1.00	28.21	N
ATOM	1136	CA	LEU A 168	22.712	15.494	28.779	1.00	28.05	C
ATOM	1137	CB	LEU A 168	22.265	16.487	27.697	1.00	28.07	C
ATOM	1138	CG	LEU A 168	20.756	16.747	27.683	1.00	28.26	C
ATOM	1139	CD1	LEU A 168	20.422	17.814	26.662	1.00	28.45	C
ATOM	1140	CD2	LEU A 168	20.025	15.452	27.366	1.00	28.49	C
ATOM	1141	C	LEU A 168	24.163	15.077	28.568	1.00	27.93	C
ATOM	1142	O	LEU A 168	24.438	13.999	28.037	1.00	28.11	O
ATOM	1143	N	ALA A 169	25.089	15.926	29.007	1.00	27.73	N
ATOM	1144	CA	ALA A 169	26.515	15.632	28.873	1.00	28.12	C
ATOM	1145	CB	ALA A 169	27.358	16.852	29.288	1.00	27.69	C
ATOM	1146	C	ALA A 169	26.859	14.426	29.746	1.00	28.18	C
ATOM	1147	O	ALA A 169	27.572	13.519	29.311	1.00	28.29	O
ATOM	1148	N	GLU A 170	26.357	14.415	30.978	1.00	28.76	N
ATOM	1149	CA	GLU A 170	26.610	13.285	31.873	1.00	29.18	C
ATOM	1150	CB	GLU A 170	25.898	13.480	33.218	1.00	29.14	C
ATOM	1151	CG	GLU A 170	26.581	14.460	34.167	1.00	29.02	C
ATOM	1152	CD	GLU A 170	27.862	13.903	34.788	1.00	29.97	C
ATOM	1153	OE1	GLU A 170	28.793	14.700	35.045	1.00	29.30	O
ATOM	1154	OE2	GLU A 170	27.939	12.676	35.032	1.00	30.01	O
ATOM	1155	C	GLU A 170	26.099	12.011	31.205	1.00	29.51	C
ATOM	1156	O	GLU A 170	26.824	11.025	31.090	1.00	29.71	O
ATOM	1157	N	ALA A 171	24.848	12.042	30.752	1.00	29.94	N
ATOM	1158	CA	ALA A 171	24.253	10.883	30.094	1.00	30.26	C
ATOM	1159	CB	ALA A 171	22.868	11.234	29.572	1.00	30.29	C
ATOM	1160	C	ALA A 171	25.124	10.394	28.947	1.00	30.81	C
ATOM	1161	O	ALA A 171	25.412	9.201	28.834	1.00	31.13	O
ATOM	1162	N	LYS A 172	25.546	11.316	28.091	1.00	31.06	N
ATOM	1163	CA	LYS A 172	26.366	10.947	26.950	1.00	32.12	C
ATOM	1164	CB	LYS A 172	26.795	12.192	26.171	1.00	32.06	C
ATOM	1165	CG	LYS A 172	27.626	11.871	24.940	1.00	32.46	C
ATOM	1166	CD	LYS A 172	28.013	13.136	24.180	1.00	32.50	C
ATOM	1167	CE	LYS A 172	28.815	12.800	22.932	1.00	33.01	C
ATOM	1168	NZ	LYS A 172	29.159	14.022	22.167	1.00	32.96	N
ATOM	1169	C	LYS A 172	27.597	10.131	27.326	1.00	32.64	C
ATOM	1170	O	LYS A 172	27.829	9.062	26.757	1.00	32.92	O
ATOM	1171	N	LEU A 173	28.387	10.620	28.276	1.00	33.14	N
ATOM	1172	CA	LEU A 173	29.587	9.897	28.669	1.00	34.31	C
ATOM	1173	CB	LEU A 173	30.552	10.812	29.433	1.00	34.17	C
ATOM	1174	CG	LEU A 173	31.093	12.078	28.747	1.00	34.37	C

Figure 10V

ATOM	1175	CD1 LEU A 173	32.576	12.212	29.062	1.00	33.96	C
ATOM	1176	CD2 LEU A 173	30.880	12.025	27.247	1.00	34.33	C
ATOM	1177	C LEU A 173	29.278	8.653	29.496	1.00	35.30	C
ATOM	1178	O LEU A 173	30.172	7.870	29.805	1.00	35.42	O
ATOM	1179	N HIS A 174	28.015	8.473	29.864	1.00	36.72	N
ATOM	1180	CA HIS A 174	27.630	7.293	30.626	1.00	38.16	C
ATOM	1181	CB HIS A 174	26.560	7.644	31.664	1.00	37.76	C
ATOM	1182	CG HIS A 174	27.124	8.213	32.929	1.00	37.39	C
ATOM	1183	CD2 HIS A 174	27.348	9.494	33.308	1.00	37.15	C
ATOM	1184	ND1 HIS A 174	27.602	7.422	33.953	1.00	37.82	N
ATOM	1185	CE1 HIS A 174	28.095	8.192	34.907	1.00	37.44	C
ATOM	1186	NE2 HIS A 174	27.955	9.453	34.540	1.00	37.12	N
ATOM	1187	C HIS A 174	27.130	6.219	29.669	1.00	39.31	C
ATOM	1188	O HIS A 174	26.810	5.108	30.083	1.00	39.72	O
ATOM	1189	N GLY A 175	27.073	6.560	28.384	1.00	40.42	N
ATOM	1190	CA GLY A 175	26.639	5.597	27.387	1.00	41.81	C
ATOM	1191	C GLY A 175	25.287	5.845	26.747	1.00	43.00	C
ATOM	1192	O GLY A 175	24.886	5.105	25.846	1.00	43.03	O
ATOM	1193	N GLU A 176	24.571	6.868	27.204	1.00	43.77	N
ATOM	1194	CA GLU A 176	23.266	7.173	26.629	1.00	45.02	C
ATOM	1195	CB GLU A 176	22.324	7.762	27.686	1.00	46.03	C
ATOM	1196	CG GLU A 176	21.921	6.795	28.792	1.00	47.96	C
ATOM	1197	CD GLU A 176	22.955	6.689	29.898	1.00	49.25	C
ATOM	1198	OE1 GLU A 176	23.169	7.694	30.614	1.00	49.83	O
ATOM	1199	OE2 GLU A 176	23.552	5.601	30.055	1.00	50.12	O
ATOM	1200	C GLU A 176	23.413	8.153	25.474	1.00	45.17	C
ATOM	1201	O GLU A 176	24.327	8.975	25.459	1.00	45.70	O
ATOM	1202	N ASP A 177	22.512	8.059	24.503	1.00	45.24	N
ATOM	1203	CA ASP A 177	22.545	8.938	23.342	1.00	44.89	C
ATOM	1204	CB ASP A 177	21.869	8.253	22.157	1.00	46.19	C
ATOM	1205	CG ASP A 177	22.460	6.882	21.871	1.00	47.31	C
ATOM	1206	OD1 ASP A 177	23.559	6.818	21.272	1.00	47.70	O
ATOM	1207	OD2 ASP A 177	21.831	5.873	22.267	1.00	48.01	O
ATOM	1208	C ASP A 177	21.833	10.238	23.672	1.00	43.98	C
ATOM	1209	O ASP A 177	20.814	10.243	24.357	1.00	44.07	O
ATOM	1210	N VAL A 178	22.381	11.342	23.186	1.00	42.87	N
ATOM	1211	CA VAL A 178	21.800	12.649	23.441	1.00	41.57	C
ATOM	1212	CB VAL A 178	22.852	13.765	23.229	1.00	41.43	C
ATOM	1213	CG1 VAL A 178	22.253	15.120	23.567	1.00	40.77	C
ATOM	1214	CG2 VAL A 178	24.085	13.484	24.083	1.00	41.33	C
ATOM	1215	C VAL A 178	20.608	12.913	22.524	1.00	40.74	C
ATOM	1216	O VAL A 178	20.715	12.801	21.305	1.00	40.65	O
ATOM	1217	N SER A 179	19.471	13.260	23.118	1.00	40.12	N
ATOM	1218	CA SER A 179	18.271	13.564	22.346	1.00	39.22	C
ATOM	1219	CB SER A 179	17.032	13.517	23.234	1.00	39.19	C
ATOM	1220	OG SER A 179	15.955	14.187	22.604	1.00	39.12	O
ATOM	1221	C SER A 179	18.397	14.957	21.751	1.00	38.78	C
ATOM	1222	O SER A 179	18.419	15.950	22.482	1.00	38.57	O
ATOM	1223	N LEU A 180	18.480	15.036	20.427	1.00	38.11	N
ATOM	1224	CA LEU A 180	18.602	16.330	19.772	1.00	37.12	C
ATOM	1225	CB LEU A 180	18.859	16.153	18.276	1.00	37.25	C
ATOM	1226	CG LEU A 180	20.159	15.430	17.903	1.00	37.36	C
ATOM	1227	CD1 LEU A 180	20.354	15.483	16.394	1.00	37.56	C
ATOM	1228	CD2 LEU A 180	21.344	16.082	18.615	1.00	37.57	C
ATOM	1229	C LEU A 180	17.355	17.173	19.995	1.00	36.72	C
ATOM	1230	O LEU A 180	17.433	18.398	20.045	1.00	36.33	O
ATOM	1231	N ASP A 181	16.203	16.523	20.136	1.00	36.44	N
ATOM	1232	CA ASP A 181	14.966	17.256	20.366	1.00	36.07	C

Figure 10W

ATOM	1233	CB	ASP A 181	13.754	16.319	20.311	1.00	37.55	C
ATOM	1234	CG	ASP A 181	13.486	15.790	18.909	1.00	38.95	C
ATOM	1235	OD1	ASP A 181	13.589	16.570	17.937	1.00	39.74	O
ATOM	1236	OD2	ASP A 181	13.158	14.594	18.777	1.00	40.38	O
ATOM	1237	C	ASP A 181	15.014	17.971	21.714	1.00	34.99	C
ATOM	1238	O	ASP A 181	14.491	19.074	21.859	1.00	34.62	O
ATOM	1239	N	ALA A 182	15.638	17.337	22.702	1.00	34.20	N
ATOM	1240	CA	ALA A 182	15.766	17.939	24.026	1.00	33.44	C
ATOM	1241	CB	ALA A 182	16.388	16.937	25.003	1.00	33.26	C
ATOM	1242	C	ALA A 182	16.645	19.186	23.910	1.00	32.88	C
ATOM	1243	O	ALA A 182	16.362	20.216	24.514	1.00	32.37	O
ATOM	1244	N	LEU A 183	17.714	19.085	23.124	1.00	32.52	N
ATOM	1245	CA	LEU A 183	18.614	20.214	22.915	1.00	31.97	C
ATOM	1246	CB	LEU A 183	19.823	19.796	22.080	1.00	32.53	C
ATOM	1247	CG	LEU A 183	21.089	19.365	22.816	1.00	33.44	C
ATOM	1248	CD1	LEU A 183	22.184	19.088	21.785	1.00	33.67	C
ATOM	1249	CD2	LEU A 183	21.533	20.463	23.787	1.00	33.50	C
ATOM	1250	C	LEU A 183	17.913	21.366	22.213	1.00	31.47	C
ATOM	1251	O	LEU A 183	18.060	22.524	22.609	1.00	31.07	O
ATOM	1252	N	LYS A 184	17.160	21.050	21.163	1.00	30.86	N
ATOM	1253	CA	LYS A 184	16.443	22.075	20.413	1.00	31.16	C
ATOM	1254	CB	LYS A 184	15.651	21.445	19.262	1.00	31.63	C
ATOM	1255	CG	LYS A 184	16.513	20.868	18.158	1.00	32.93	C
ATOM	1256	CD	LYS A 184	15.675	20.111	17.139	1.00	33.75	C
ATOM	1257	CE	LYS A 184	16.556	19.416	16.115	1.00	34.92	C
ATOM	1258	NZ	LYS A 184	15.750	18.568	15.178	1.00	35.78	N
ATOM	1259	C	LYS A 184	15.487	22.824	21.328	1.00	30.89	C
ATOM	1260	O	LYS A 184	15.307	24.033	21.199	1.00	30.37	O
ATOM	1261	N	ARG A 185	14.869	22.090	22.244	1.00	30.97	N
ATOM	1262	CA	ARG A 185	13.926	22.680	23.183	1.00	31.66	C
ATOM	1263	CB	ARG A 185	13.260	21.576	24.011	1.00	32.95	C
ATOM	1264	CG	ARG A 185	12.273	22.095	25.045	1.00	35.19	C
ATOM	1265	CD	ARG A 185	11.071	22.763	24.385	1.00	36.95	C
ATOM	1266	NE	ARG A 185	10.276	23.497	25.366	1.00	38.48	N
ATOM	1267	CZ	ARG A 185	10.678	24.616	25.959	1.00	39.27	C
ATOM	1268	NH1	ARG A 185	11.864	25.138	25.668	1.00	39.25	N
ATOM	1269	NH2	ARG A 185	9.901	25.206	26.857	1.00	40.18	N
ATOM	1270	C	ARG A 185	14.667	23.645	24.101	1.00	30.92	C
ATOM	1271	O	ARG A 185	14.239	24.781	24.313	1.00	30.74	O
ATOM	1272	N	ILE A 186	15.789	23.186	24.642	1.00	30.14	N
ATOM	1273	CA	ILE A 186	16.585	24.022	25.528	1.00	29.32	C
ATOM	1274	CB	ILE A 186	17.832	23.252	26.037	1.00	29.04	C
ATOM	1275	CG2	ILE A 186	18.741	24.190	26.829	1.00	29.20	C
ATOM	1276	CG1	ILE A 186	17.389	22.058	26.894	1.00	29.51	C
ATOM	1277	CD1	ILE A 186	18.534	21.148	27.330	1.00	29.37	C
ATOM	1278	C	ILE A 186	17.037	25.285	24.792	1.00	28.71	C
ATOM	1279	O	ILE A 186	17.015	26.380	25.351	1.00	28.31	O
ATOM	1280	N	LEU A 187	17.435	25.130	23.532	1.00	28.36	N
ATOM	1281	CA	LEU A 187	17.911	26.257	22.733	1.00	28.42	C
ATOM	1282	CB	LEU A 187	18.998	25.772	21.757	1.00	28.23	C
ATOM	1283	CG	LEU A 187	20.268	25.207	22.409	1.00	28.51	C
ATOM	1284	CD1	LEU A 187	21.125	24.483	21.376	1.00	28.72	C
ATOM	1285	CD2	LEU A 187	21.049	26.337	23.051	1.00	28.48	C
ATOM	1286	C	LEU A 187	16.814	26.996	21.956	1.00	28.77	C
ATOM	1287	O	LEU A 187	17.105	27.913	21.189	1.00	27.81	O
ATOM	1288	N	ARG A 188	15.559	26.611	22.173	1.00	29.44	N
ATOM	1289	CA	ARG A 188	14.437	27.232	21.470	1.00	30.59	C
ATOM	1290	CB	ARG A 188	13.096	26.759	22.066	1.00	31.00	C

Figure 10X

ATOM	1291	CG	ARG A 188	11.880	27.044	21.161	1.00	31.92	C
ATOM	1292	CD	ARG A 188	10.591	26.415	21.694	1.00	32.72	C
ATOM	1293	NE	ARG A 188	10.065	27.111	22.869	1.00	33.40	N
ATOM	1294	CZ	ARG A 188	8.896	26.834	23.440	1.00	33.80	C
ATOM	1295	NH1	ARG A 188	8.127	25.871	22.951	1.00	34.90	N
ATOM	1296	NH2	ARG A 188	8.486	27.525	24.492	1.00	34.07	N
ATOM	1297	C	ARG A 188	14.522	28.761	21.479	1.00	31.15	C
ATOM	1298	O	ARG A 188	14.384	29.394	20.437	1.00	31.37	O
ATOM	1299	N	PRO A 189	14.778	29.373	22.652	1.00	31.69	N
ATOM	1300	CD	PRO A 189	15.085	28.750	23.953	1.00	31.58	C
ATOM	1301	CA	PRO A 189	14.877	30.835	22.741	1.00	32.00	C
ATOM	1302	CB	PRO A 189	15.460	31.055	24.134	1.00	32.34	C
ATOM	1303	CG	PRO A 189	14.931	29.907	24.908	1.00	32.12	C
ATOM	1304	C	PRO A 189	15.781	31.423	21.661	1.00	32.69	C
ATOM	1305	O	PRO A 189	15.444	32.428	21.024	1.00	33.41	O
ATOM	1306	N	TRP A 190	16.937	30.795	21.467	1.00	32.33	N
ATOM	1307	CA	TRP A 190	17.902	31.251	20.478	1.00	32.66	C
ATOM	1308	CB	TRP A 190	19.276	30.637	20.767	1.00	31.96	C
ATOM	1309	CG	TRP A 190	19.946	31.238	21.972	1.00	31.74	C
ATOM	1310	CD2	TRP A 190	21.261	30.942	22.461	1.00	31.19	C
ATOM	1311	CE2	TRP A 190	21.475	31.752	23.597	1.00	31.14	C
ATOM	1312	CE3	TRP A 190	22.278	30.070	22.048	1.00	31.17	C
ATOM	1313	CD1	TRP A 190	19.432	32.187	22.808	1.00	31.47	C
ATOM	1314	NE1	TRP A 190	20.343	32.502	23.786	1.00	31.75	N
ATOM	1315	CZ2	TRP A 190	22.666	31.719	24.327	1.00	30.64	C
ATOM	1316	CZ3	TRP A 190	23.468	30.038	22.777	1.00	30.63	C
ATOM	1317	CH2	TRP A 190	23.647	30.858	23.903	1.00	30.76	C
ATOM	1318	C	TRP A 190	17.473	30.936	19.053	1.00	32.80	C
ATOM	1319	O	TRP A 190	17.678	31.739	18.151	1.00	33.14	O
ATOM	1320	N	LEU A 191	16.875	29.769	18.853	1.00	33.23	N
ATOM	1321	CA	LEU A 191	16.420	29.384	17.525	1.00	34.12	C
ATOM	1322	CB	LEU A 191	15.997	27.913	17.514	1.00	34.10	C
ATOM	1323	CG	LEU A 191	17.133	26.920	17.767	1.00	34.63	C
ATOM	1324	CD1	LEU A 191	16.571	25.512	17.926	1.00	34.77	C
ATOM	1325	CD2	LEU A 191	18.124	26.985	16.605	1.00	34.84	C
ATOM	1326	C	LEU A 191	15.264	30.262	17.047	1.00	34.32	C
ATOM	1327	O	LEU A 191	14.943	30.270	15.864	1.00	34.60	O
ATOM	1328	N	ARG A 192	14.640	31.000	17.962	1.00	34.66	N
ATOM	1329	CA	ARG A 192	13.532	31.879	17.584	1.00	35.36	C
ATOM	1330	CB	ARG A 192	12.417	31.827	18.630	1.00	35.21	C
ATOM	1331	CG	ARG A 192	11.568	30.569	18.575	1.00	34.86	C
ATOM	1332	CD	ARG A 192	10.556	30.560	19.709	1.00	34.91	C
ATOM	1333	NE	ARG A 192	9.624	29.440	19.608	1.00	35.35	N
ATOM	1334	CZ	ARG A 192	8.670	29.181	20.500	1.00	34.80	C
ATOM	1335	NH1	ARG A 192	8.528	29.960	21.563	1.00	34.29	N
ATOM	1336	NH2	ARG A 192	7.851	28.152	20.318	1.00	34.13	N
ATOM	1337	C	ARG A 192	13.966	33.328	17.393	1.00	35.93	C
ATOM	1338	O	ARG A 192	13.130	34.204	17.168	1.00	36.00	O
ATOM	1339	N	MET A 193	15.270	33.579	17.479	1.00	36.28	N
ATOM	1340	CA	MET A 193	15.797	34.930	17.316	1.00	36.54	C
ATOM	1341	CB	MET A 193	17.139	35.070	18.045	1.00	36.79	C
ATOM	1342	CG	MET A 193	17.038	35.165	19.564	1.00	36.88	C
ATOM	1343	SD	MET A 193	18.669	35.278	20.352	1.00	37.53	S
ATOM	1344	CE	MET A 193	19.079	37.031	20.122	1.00	36.86	C
ATOM	1345	C	MET A 193	15.987	35.306	15.848	1.00	36.67	C
ATOM	1346	O	MET A 193	16.368	34.467	15.025	1.00	36.46	O
ATOM	1347	N	LYS A 194	15.715	36.570	15.526	1.00	37.01	N
ATOM	1348	CA	LYS A 194	15.889	37.067	14.163	1.00	37.69	C

Figure 10Y

ATOM	1349	CB	LYS A 194	15.478	38.545	14.064	1.00	38.05	C
ATOM	1350	CG	LYS A 194	15.613	39.121	12.654	1.00	38.80	C
ATOM	1351	CD	LYS A 194	16.261	40.515	12.623	1.00	39.92	C
ATOM	1352	CE	LYS A 194	15.284	41.663	12.887	1.00	40.54	C
ATOM	1353	NZ	LYS A 194	14.817	41.801	14.299	1.00	41.22	N
ATOM	1354	C	LYS A 194	17.374	36.928	13.832	1.00	37.73	C
ATOM	1355	O	LYS A 194	17.757	36.399	12.787	1.00	37.39	O
ATOM	1356	N	GLU A 195	18.206	37.413	14.744	1.00	38.33	N
ATOM	1357	CA	GLU A 195	19.650	37.332	14.574	1.00	38.43	C
ATOM	1358	CB	GLU A 195	20.248	38.722	14.361	1.00	39.41	C
ATOM	1359	CG	GLU A 195	21.766	38.698	14.281	1.00	41.23	C
ATOM	1360	CD	GLU A 195	22.348	39.961	13.690	1.00	42.54	C
ATOM	1361	OE1	GLU A 195	21.953	41.066	14.125	1.00	43.29	O
ATOM	1362	OE2	GLU A 195	23.211	39.844	12.792	1.00	43.45	O
ATOM	1363	C	GLU A 195	20.268	36.688	15.810	1.00	37.55	C
ATOM	1364	O	GLU A 195	20.596	37.368	16.781	1.00	37.40	O
ATOM	1365	N	PRO A 196	20.422	35.358	15.792	1.00	36.88	N
ATOM	1366	CD	PRO A 196	20.121	34.417	14.697	1.00	37.02	C
ATOM	1367	CA	PRO A 196	21.006	34.659	16.940	1.00	36.26	C
ATOM	1368	CB	PRO A 196	20.744	33.191	16.611	1.00	36.49	C
ATOM	1369	CG	PRO A 196	20.877	33.165	15.122	1.00	37.04	C
ATOM	1370	C	PRO A 196	22.491	34.973	17.078	1.00	35.39	C
ATOM	1371	O	PRO A 196	23.105	35.530	16.166	1.00	35.42	O
ATOM	1372	N	PRO A 197	23.089	34.626	18.228	1.00	34.89	N
ATOM	1373	CD	PRO A 197	22.518	33.900	19.374	1.00	34.65	C
ATOM	1374	CA	PRO A 197	24.517	34.894	18.438	1.00	34.16	C
ATOM	1375	CB	PRO A 197	24.789	34.288	19.820	1.00	34.06	C
ATOM	1376	CG	PRO A 197	23.457	34.284	20.480	1.00	34.48	C
ATOM	1377	C	PRO A 197	25.334	34.192	17.366	1.00	33.22	C
ATOM	1378	O	PRO A 197	25.018	33.067	16.991	1.00	33.54	O
ATOM	1379	N	ASP A 198	26.376	34.838	16.857	1.00	32.64	N
ATOM	1380	CA	ASP A 198	27.200	34.173	15.861	1.00	32.00	C
ATOM	1381	CB	ASP A 198	27.669	35.169	14.782	1.00	32.92	C
ATOM	1382	CG	ASP A 198	28.741	36.136	15.269	1.00	34.20	C
ATOM	1383	OD1	ASP A 198	28.889	36.334	16.497	1.00	34.32	O
ATOM	1384	OD2	ASP A 198	29.433	36.718	14.394	1.00	34.48	O
ATOM	1385	C	ASP A 198	28.379	33.517	16.590	1.00	30.70	C
ATOM	1386	O	ASP A 198	29.151	32.754	16.008	1.00	30.48	O
ATOM	1387	N	THR A 199	28.477	33.797	17.885	1.00	29.73	N
ATOM	1388	CA	THR A 199	29.541	33.245	18.728	1.00	28.32	C
ATOM	1389	CB	THR A 199	30.609	34.317	19.009	1.00	28.44	C
ATOM	1390	OG1	THR A 199	31.040	34.892	17.767	1.00	28.45	O
ATOM	1391	CG2	THR A 199	31.817	33.703	19.712	1.00	27.68	C
ATOM	1392	C	THR A 199	28.925	32.774	20.050	1.00	27.54	C
ATOM	1393	O	THR A 199	28.258	33.544	20.731	1.00	27.62	O
ATOM	1394	N	VAL A 200	29.137	31.509	20.408	1.00	26.67	N
ATOM	1395	CA	VAL A 200	28.573	30.975	21.645	1.00	25.45	C
ATOM	1396	CB	VAL A 200	27.603	29.794	21.368	1.00	25.29	C
ATOM	1397	CG1	VAL A 200	27.103	29.205	22.688	1.00	24.41	C
ATOM	1398	CG2	VAL A 200	26.410	30.273	20.533	1.00	25.16	C
ATOM	1399	C	VAL A 200	29.665	30.485	22.586	1.00	24.96	C
ATOM	1400	O	VAL A 200	30.457	29.615	22.228	1.00	25.00	O
ATOM	1401	N	VAL A 201	29.692	31.050	23.787	1.00	24.00	N
ATOM	1402	CA	VAL A 201	30.672	30.680	24.803	1.00	24.07	C
ATOM	1403	CB	VAL A 201	30.931	31.850	25.784	1.00	23.91	C
ATOM	1404	CG1	VAL A 201	31.872	31.401	26.907	1.00	23.25	C
ATOM	1405	CG2	VAL A 201	31.527	33.032	25.035	1.00	23.70	C
ATOM	1406	C	VAL A 201	30.151	29.506	25.620	1.00	23.96	C

Figure 10Z

ATOM	1407	O	VAL A 201	29.044	29.551	26.144	1.00	24.03	O
ATOM	1408	N	LEU A 202	30.937	28.445	25.711	1.00	24.28	N
ATOM	1409	CA	LEU A 202	30.531	27.304	26.519	1.00	24.52	C
ATOM	1410	CB	LEU A 202	31.091	26.010	25.927	1.00	24.85	C
ATOM	1411	CG	LEU A 202	30.634	25.793	24.479	1.00	24.66	C
ATOM	1412	CD1	LEU A 202	31.126	24.450	23.954	1.00	25.52	C
ATOM	1413	CD2	LEU A 202	29.115	25.869	24.418	1.00	24.68	C
ATOM	1414	C	LEU A 202	31.123	27.596	27.890	1.00	24.97	C
ATOM	1415	O	LEU A 202	32.318	27.377	28.124	1.00	25.27	O
ATOM	1416	N	GLY A 203	30.283	28.132	28.772	1.00	25.47	N
ATOM	1417	CA	GLY A 203	30.708	28.498	30.114	1.00	26.68	C
ATOM	1418	C	GLY A 203	30.468	27.425	31.157	1.00	27.26	C
ATOM	1419	O	GLY A 203	30.282	27.711	32.337	1.00	28.58	O
ATOM	1420	N	CYS A 204	30.441	26.182	30.704	1.00	27.73	N
ATOM	1421	CA	CYS A 204	30.273	25.034	31.582	1.00	27.40	C
ATOM	1422	CB	CYS A 204	28.824	24.551	31.568	1.00	28.28	C
ATOM	1423	SG	CYS A 204	28.483	23.277	32.788	1.00	29.75	S
ATOM	1424	C	CYS A 204	31.200	23.998	30.959	1.00	26.65	C
ATOM	1425	O	CYS A 204	31.088	23.705	29.768	1.00	26.53	O
ATOM	1426	N	THR A 205	32.130	23.455	31.740	1.00	25.96	N
ATOM	1427	CA	THR A 205	33.072	22.481	31.188	1.00	25.54	C
ATOM	1428	CB	THR A 205	34.179	22.112	32.213	1.00	25.97	C
ATOM	1429	OG1	THR A 205	33.604	21.417	33.326	1.00	25.47	O
ATOM	1430	CG2	THR A 205	34.866	23.376	32.720	1.00	26.26	C
ATOM	1431	C	THR A 205	32.398	21.209	30.671	1.00	25.02	C
ATOM	1432	O	THR A 205	33.020	20.402	29.978	1.00	25.08	O
ATOM	1433	N	HIS A 206	31.126	21.024	31.004	1.00	25.00	N
ATOM	1434	CA	HIS A 206	30.389	19.861	30.507	1.00	25.50	C
ATOM	1435	CB	HIS A 206	29.096	19.644	31.301	1.00	25.48	C
ATOM	1436	CG	HIS A 206	29.243	18.752	32.496	1.00	25.77	C
ATOM	1437	CD2	HIS A 206	28.818	17.485	32.715	1.00	26.12	C
ATOM	1438	ND1	HIS A 206	29.853	19.158	33.664	1.00	26.12	N
ATOM	1439	CE1	HIS A 206	29.794	18.182	34.552	1.00	26.27	C
ATOM	1440	NE2	HIS A 206	29.171	17.156	34.001	1.00	25.97	N
ATOM	1441	C	HIS A 206	29.990	20.056	29.038	1.00	25.23	C
ATOM	1442	O	HIS A 206	29.915	19.096	28.261	1.00	24.85	O
ATOM	1443	N	PHE A 207	29.739	21.305	28.661	1.00	25.12	N
ATOM	1444	CA	PHE A 207	29.259	21.602	27.314	1.00	24.78	C
ATOM	1445	CB	PHE A 207	28.765	23.059	27.262	1.00	24.50	C
ATOM	1446	CG	PHE A 207	27.625	23.346	28.223	1.00	24.94	C
ATOM	1447	CD1	PHE A 207	27.171	24.651	28.422	1.00	24.92	C
ATOM	1448	CD2	PHE A 207	27.019	22.311	28.945	1.00	25.02	C
ATOM	1449	CE1	PHE A 207	26.137	24.924	29.322	1.00	24.91	C
ATOM	1450	CE2	PHE A 207	25.984	22.574	29.848	1.00	24.68	C
ATOM	1451	CZ	PHE A 207	25.544	23.881	30.037	1.00	24.50	C
ATOM	1452	C	PHE A 207	30.139	21.263	26.117	1.00	24.23	C
ATOM	1453	O	PHE A 207	29.624	20.794	25.105	1.00	24.49	O
ATOM	1454	N	PRO A 208	31.467	21.485	26.199	1.00	24.05	N
ATOM	1455	CD	PRO A 208	32.268	22.196	27.216	1.00	23.52	C
ATOM	1456	CA	PRO A 208	32.292	21.140	25.035	1.00	23.79	C
ATOM	1457	CB	PRO A 208	33.709	21.443	25.519	1.00	23.37	C
ATOM	1458	CG	PRO A 208	33.497	22.617	26.415	1.00	23.62	C
ATOM	1459	C	PRO A 208	32.111	19.665	24.650	1.00	23.75	C
ATOM	1460	O	PRO A 208	32.307	19.283	23.496	1.00	23.71	O
ATOM	1461	N	LEU A 209	31.731	18.846	25.628	1.00	24.35	N
ATOM	1462	CA	LEU A 209	31.510	17.416	25.400	1.00	24.73	C
ATOM	1463	CB	LEU A 209	31.225	16.703	26.730	1.00	24.44	C
ATOM	1464	CG	LEU A 209	32.351	16.705	27.763	1.00	24.17	C

Figure 10AA

ATOM	1465	CD1 LEU A 209	31.856	16.084	29.055	1.00	24.39	C
ATOM	1466	CD2 LEU A 209	33.546	15.940	27.213	1.00	25.04	C
ATOM	1467	C LEU A 209	30.330	17.193	24.453	1.00	24.96	C
ATOM	1468	O LEU A 209	30.185	16.115	23.871	1.00	25.40	O
ATOM	1469	N LEU A 210	29.492	18.214	24.311	1.00	25.40	N
ATOM	1470	CA LEU A 210	28.313	18.150	23.445	1.00	26.09	C
ATOM	1471	CB LEU A 210	27.091	18.700	24.187	1.00	26.08	C
ATOM	1472	CG LEU A 210	26.612	17.931	25.424	1.00	26.43	C
ATOM	1473	CD1 LEU A 210	25.590	18.754	26.165	1.00	26.49	C
ATOM	1474	CD2 LEU A 210	26.031	16.587	25.006	1.00	26.75	C
ATOM	1475	C LEU A 210	28.513	18.956	22.165	1.00	26.97	C
ATOM	1476	O LEU A 210	27.551	19.238	21.443	1.00	26.49	O
ATOM	1477	N GLN A 211	29.754	19.325	21.877	1.00	27.84	N
ATOM	1478	CA GLN A 211	30.018	20.125	20.689	1.00	29.76	C
ATOM	1479	CB GLN A 211	31.525	20.241	20.426	1.00	31.43	C
ATOM	1480	CG GLN A 211	31.822	21.058	19.169	1.00	35.04	C
ATOM	1481	CD GLN A 211	33.278	21.444	19.027	1.00	36.79	C
ATOM	1482	OE1 GLN A 211	33.814	22.205	19.840	1.00	38.21	O
ATOM	1483	NE2 GLN A 211	33.929	20.926	17.985	1.00	37.92	N
ATOM	1484	C GLN A 211	29.319	19.624	19.428	1.00	29.78	C
ATOM	1485	O GLN A 211	28.629	20.390	18.757	1.00	29.75	O
ATOM	1486	N GLU A 212	29.482	18.346	19.104	1.00	30.23	N
ATOM	1487	CA GLU A 212	28.857	17.805	17.898	1.00	31.41	C
ATOM	1488	CB GLU A 212	29.173	16.312	17.750	1.00	33.48	C
ATOM	1489	CG GLU A 212	28.789	15.739	16.391	1.00	36.83	C
ATOM	1490	CD GLU A 212	29.709	14.609	15.940	1.00	38.98	C
ATOM	1491	OE1 GLU A 212	30.921	14.860	15.738	1.00	40.36	O
ATOM	1492	OE2 GLU A 212	29.223	13.468	15.786	1.00	40.67	O
ATOM	1493	C GLU A 212	27.348	18.023	17.894	1.00	30.99	C
ATOM	1494	O GLU A 212	26.791	18.548	16.928	1.00	30.68	O
ATOM	1495	N GLU A 213	26.692	17.628	18.983	1.00	30.23	N
ATOM	1496	CA GLU A 213	25.253	17.788	19.103	1.00	29.95	C
ATOM	1497	CB GLU A 213	24.760	17.214	20.436	1.00	30.26	C
ATOM	1498	CG GLU A 213	24.844	15.697	20.570	1.00	31.58	C
ATOM	1499	CD GLU A 213	26.237	15.179	20.909	1.00	32.64	C
ATOM	1500	OE1 GLU A 213	27.150	15.992	21.177	1.00	32.86	O
ATOM	1501	OE2 GLU A 213	26.412	13.942	20.915	1.00	33.12	O
ATOM	1502	C GLU A 213	24.840	19.258	19.005	1.00	29.41	C
ATOM	1503	O GLU A 213	23.857	19.587	18.338	1.00	29.01	O
ATOM	1504	N LEU A 214	25.580	20.137	19.681	1.00	28.84	N
ATOM	1505	CA LEU A 214	25.268	21.567	19.656	1.00	28.43	C
ATOM	1506	CB LEU A 214	26.216	22.348	20.570	1.00	28.13	C
ATOM	1507	CG LEU A 214	25.977	22.173	22.075	1.00	27.63	C
ATOM	1508	CD1 LEU A 214	27.109	22.818	22.862	1.00	27.49	C
ATOM	1509	CD2 LEU A 214	24.626	22.791	22.447	1.00	27.85	C
ATOM	1510	C LEU A 214	25.348	22.136	18.247	1.00	28.83	C
ATOM	1511	O LEU A 214	24.507	22.937	17.845	1.00	27.87	O
ATOM	1512	N LEU A 215	26.356	21.713	17.498	1.00	29.30	N
ATOM	1513	CA LEU A 215	26.528	22.202	16.142	1.00	30.96	C
ATOM	1514	CB LEU A 215	27.918	21.822	15.630	1.00	30.54	C
ATOM	1515	CG LEU A 215	29.025	22.593	16.358	1.00	30.81	C
ATOM	1516	CD1 LEU A 215	30.386	22.124	15.895	1.00	30.80	C
ATOM	1517	CD2 LEU A 215	28.858	24.084	16.093	1.00	30.46	C
ATOM	1518	C LEU A 215	25.440	21.709	15.191	1.00	31.93	C
ATOM	1519	O LEU A 215	25.211	22.308	14.145	1.00	32.43	O
ATOM	1520	N GLN A 216	24.762	20.625	15.551	1.00	33.13	N
ATOM	1521	CA GLN A 216	23.695	20.108	14.701	1.00	34.56	C
ATOM	1522	CB GLN A 216	23.435	18.625	14.988	1.00	35.66	C

Figure 10BB

ATOM	1523	CG	GLN A 216	24.610	17.700	14.728	1.00	37.89	C
ATOM	1524	CD	GLN A 216	24.241	16.238	14.906	1.00	39.33	C
ATOM	1525	OE1	GLN A 216	23.524	15.665	14.083	1.00	41.09	O
ATOM	1526	NE2	GLN A 216	24.717	15.629	15.988	1.00	39.66	N
ATOM	1527	C	GLN A 216	22.406	20.888	14.939	1.00	34.80	C
ATOM	1528	O	GLN A 216	21.569	21.014	14.047	1.00	35.06	O
ATOM	1529	N	VAL A 217	22.258	21.416	16.148	1.00	34.71	N
ATOM	1530	CA	VAL A 217	21.064	22.156	16.531	1.00	35.07	C
ATOM	1531	CB	VAL A 217	20.710	21.866	18.016	1.00	35.06	C
ATOM	1532	CG1	VAL A 217	19.504	22.685	18.451	1.00	35.49	C
ATOM	1533	CG2	VAL A 217	20.435	20.390	18.192	1.00	35.11	C
ATOM	1534	C	VAL A 217	21.164	23.664	16.336	1.00	35.24	C
ATOM	1535	O	VAL A 217	20.199	24.304	15.925	1.00	34.92	O
ATOM	1536	N	LEU A 218	22.326	24.233	16.640	1.00	35.48	N
ATOM	1537	CA	LEU A 218	22.520	25.674	16.511	1.00	35.98	C
ATOM	1538	CB	LEU A 218	23.837	26.097	17.175	1.00	35.20	C
ATOM	1539	CG	LEU A 218	23.954	25.958	18.699	1.00	34.74	C
ATOM	1540	CD1	LEU A 218	25.415	26.086	19.099	1.00	33.85	C
ATOM	1541	CD2	LEU A 218	23.107	27.018	19.395	1.00	34.29	C
ATOM	1542	C	LEU A 218	22.520	26.143	15.059	1.00	36.85	C
ATOM	1543	O	LEU A 218	22.923	25.408	14.154	1.00	36.56	O
ATOM	1544	N	PRO A 219	22.062	27.382	14.819	1.00	37.78	N
ATOM	1545	CD	PRO A 219	21.542	28.360	15.788	1.00	38.25	C
ATOM	1546	CA	PRO A 219	22.026	27.929	13.461	1.00	38.69	C
ATOM	1547	CB	PRO A 219	21.507	29.354	13.664	1.00	38.57	C
ATOM	1548	CG	PRO A 219	21.840	29.660	15.088	1.00	38.75	C
ATOM	1549	C	PRO A 219	23.390	27.895	12.785	1.00	39.23	C
ATOM	1550	O	PRO A 219	24.422	28.136	13.419	1.00	39.41	O
ATOM	1551	N	GLU A 220	23.381	27.591	11.494	1.00	39.72	N
ATOM	1552	CA	GLU A 220	24.600	27.502	10.698	1.00	40.27	C
ATOM	1553	CB	GLU A 220	24.250	27.481	9.207	1.00	41.80	C
ATOM	1554	CG	GLU A 220	22.941	26.777	8.874	1.00	43.87	C
ATOM	1555	CD	GLU A 220	22.413	27.165	7.498	1.00	45.18	C
ATOM	1556	OE1	GLU A 220	23.087	26.854	6.492	1.00	45.89	O
ATOM	1557	OE2	GLU A 220	21.325	27.789	7.425	1.00	45.96	O
ATOM	1558	C	GLU A 220	25.505	28.698	10.972	1.00	39.71	C
ATOM	1559	O	GLU A 220	25.023	29.808	11.211	1.00	40.05	O
ATOM	1560	N	GLY A 221	26.813	28.466	10.946	1.00	38.99	N
ATOM	1561	CA	GLY A 221	27.758	29.547	11.162	1.00	38.23	C
ATOM	1562	C	GLY A 221	28.059	29.947	12.595	1.00	37.79	C
ATOM	1563	O	GLY A 221	28.875	30.842	12.818	1.00	37.76	O
ATOM	1564	N	THR A 222	27.414	29.308	13.566	1.00	36.92	N
ATOM	1565	CA	THR A 222	27.669	29.637	14.967	1.00	36.06	C
ATOM	1566	CB	THR A 222	26.600	29.039	15.911	1.00	36.28	C
ATOM	1567	OG1	THR A 222	25.286	29.441	15.489	1.00	35.84	O
ATOM	1568	CG2	THR A 222	26.836	29.530	17.331	1.00	35.92	C
ATOM	1569	C	THR A 222	29.031	29.082	15.375	1.00	35.26	C
ATOM	1570	O	THR A 222	29.325	27.904	15.159	1.00	35.42	O
ATOM	1571	N	ARG A 223	29.864	29.934	15.962	1.00	33.89	N
ATOM	1572	CA	ARG A 223	31.187	29.515	16.395	1.00	32.73	C
ATOM	1573	CB	ARG A 223	32.213	30.593	16.048	1.00	33.48	C
ATOM	1574	CG	ARG A 223	33.634	30.257	16.448	1.00	34.74	C
ATOM	1575	CD	ARG A 223	34.572	31.304	15.885	1.00	35.80	C
ATOM	1576	NE	ARG A 223	35.976	31.038	16.180	1.00	36.83	N
ATOM	1577	CZ	ARG A 223	36.975	31.735	15.653	1.00	36.90	C
ATOM	1578	NH1	ARG A 223	36.709	32.722	14.808	1.00	37.42	N
ATOM	1579	NH2	ARG A 223	38.229	31.460	15.974	1.00	37.62	N
ATOM	1580	C	ARG A 223	31.204	29.254	17.896	1.00	31.22	C

Figure 10CC

ATOM	1581	O	ARG A 223	30.823	30.118	18.684	1.00	31.14	O
ATOM	1582	N	LEU A 224	31.649	28.063	18.287	1.00	29.77	N
ATOM	1583	CA	LEU A 224	31.714	27.702	19.698	1.00	28.63	C
ATOM	1584	CB	LEU A 224	31.501	26.196	19.885	1.00	28.14	C
ATOM	1585	CG	LEU A 224	30.191	25.617	19.343	1.00	28.31	C
ATOM	1586	CD1	LEU A 224	30.145	24.122	19.618	1.00	27.77	C
ATOM	1587	CD2	LEU A 224	29.011	26.321	19.990	1.00	28.16	C
ATOM	1588	C	LEU A 224	33.074	28.088	20.267	1.00	28.22	C
ATOM	1589	O	LEU A 224	34.113	27.855	19.646	1.00	27.72	O
ATOM	1590	N	VAL A 225	33.055	28.678	21.452	1.00	27.59	N
ATOM	1591	CA	VAL A 225	34.279	29.094	22.114	1.00	27.22	C
ATOM	1592	CB	VAL A 225	34.386	30.638	22.165	1.00	27.19	C
ATOM	1593	CG1	VAL A 225	35.669	31.047	22.875	1.00	27.27	C
ATOM	1594	CG2	VAL A 225	34.346	31.219	20.755	1.00	27.27	C
ATOM	1595	C	VAL A 225	34.315	28.573	23.553	1.00	27.00	C
ATOM	1596	O	VAL A 225	33.343	28.707	24.291	1.00	26.02	O
ATOM	1597	N	ASP A 226	35.427	27.965	23.946	1.00	27.26	N
ATOM	1598	CA	ASP A 226	35.555	27.505	25.319	1.00	28.37	C
ATOM	1599	CB	ASP A 226	35.210	26.008	25.469	1.00	29.27	C
ATOM	1600	CG	ASP A 226	36.130	25.095	24.689	1.00	30.58	C
ATOM	1601	OD1	ASP A 226	37.361	25.166	24.874	1.00	31.43	O
ATOM	1602	OD2	ASP A 226	35.613	24.283	23.891	1.00	32.27	O
ATOM	1603	C	ASP A 226	36.952	27.818	25.835	1.00	28.68	C
ATOM	1604	O	ASP A 226	37.767	28.418	25.126	1.00	28.29	O
ATOM	1605	N	SER A 227	37.222	27.409	27.067	1.00	29.15	N
ATOM	1606	CA	SER A 227	38.493	27.693	27.730	1.00	30.16	C
ATOM	1607	CB	SER A 227	38.212	28.003	29.200	1.00	30.84	C
ATOM	1608	OG	SER A 227	37.330	29.105	29.315	1.00	33.08	O
ATOM	1609	C	SER A 227	39.568	26.613	27.662	1.00	29.90	C
ATOM	1610	O	SER A 227	40.696	26.833	28.118	1.00	30.24	O
ATOM	1611	N	GLY A 228	39.221	25.467	27.089	1.00	29.54	N
ATOM	1612	CA	GLY A 228	40.133	24.333	27.004	1.00	29.07	C
ATOM	1613	C	GLY A 228	41.586	24.537	26.605	1.00	29.10	C
ATOM	1614	O	GLY A 228	42.494	24.267	27.400	1.00	28.05	O
ATOM	1615	N	ALA A 229	41.810	24.983	25.368	1.00	28.66	N
ATOM	1616	CA	ALA A 229	43.161	25.208	24.868	1.00	28.46	C
ATOM	1617	CB	ALA A 229	43.113	25.634	23.399	1.00	28.89	C
ATOM	1618	C	ALA A 229	43.900	26.257	25.694	1.00	28.23	C
ATOM	1619	O	ALA A 229	45.095	26.127	25.934	1.00	28.75	O
ATOM	1620	N	ALA A 230	43.191	27.290	26.135	1.00	28.21	N
ATOM	1621	CA	ALA A 230	43.820	28.341	26.937	1.00	28.47	C
ATOM	1622	CB	ALA A 230	42.872	29.512	27.106	1.00	28.62	C
ATOM	1623	C	ALA A 230	44.248	27.821	28.309	1.00	29.04	C
ATOM	1624	O	ALA A 230	45.253	28.281	28.871	1.00	28.26	O
ATOM	1625	N	ILE A 231	43.476	26.874	28.850	1.00	28.95	N
ATOM	1626	CA	ILE A 231	43.785	26.281	30.149	1.00	29.12	C
ATOM	1627	CB	ILE A 231	42.651	25.351	30.636	1.00	29.08	C
ATOM	1628	CG2	ILE A 231	43.053	24.671	31.953	1.00	28.24	C
ATOM	1629	CG1	ILE A 231	41.364	26.152	30.804	1.00	29.21	C
ATOM	1630	CD1	ILE A 231	41.467	27.238	31.820	1.00	28.47	C
ATOM	1631	C	ILE A 231	45.035	25.442	29.986	1.00	29.33	C
ATOM	1632	O	ILE A 231	45.915	25.428	30.850	1.00	29.46	O
ATOM	1633	N	ALA A 232	45.097	24.729	28.870	1.00	29.68	N
ATOM	1634	CA	ALA A 232	46.237	23.884	28.566	1.00	30.26	C
ATOM	1635	CB	ALA A 232	46.030	23.206	27.223	1.00	30.00	C
ATOM	1636	C	ALA A 232	47.493	24.764	28.538	1.00	31.19	C
ATOM	1637	O	ALA A 232	48.487	24.458	29.202	1.00	31.16	O
ATOM	1638	N	ARG A 233	47.437	25.863	27.784	1.00	31.62	N

Figure 10DD

ATOM	1639	CA	ARG A 233	48.576	26.776	27.695	1.00	32.55	C
ATOM	1640	CB	ARG A 233	48.273	27.932	26.729	1.00	32.86	C
ATOM	1641	CG	ARG A 233	48.187	27.516	25.259	1.00	32.98	C
ATOM	1642	CD	ARG A 233	48.181	28.745	24.352	1.00	34.06	C
ATOM	1643	NE	ARG A 233	46.982	29.563	24.530	1.00	34.89	N
ATOM	1644	CZ	ARG A 233	45.818	29.316	23.934	1.00	35.40	C
ATOM	1645	NH1	ARG A 233	45.697	28.281	23.115	1.00	35.59	N
ATOM	1646	NH2	ARG A 233	44.770	30.094	24.168	1.00	35.89	N
ATOM	1647	C	ARG A 233	48.952	27.332	29.069	1.00	32.57	C
ATOM	1648	O	ARG A 233	50.129	27.422	29.402	1.00	32.69	O
ATOM	1649	N	ARG A 234	47.957	27.702	29.869	1.00	32.61	N
ATOM	1650	CA	ARG A 234	48.229	28.229	31.206	1.00	32.84	C
ATOM	1651	CB	ARG A 234	46.934	28.713	31.861	1.00	32.78	C
ATOM	1652	CG	ARG A 234	47.107	29.235	33.280	1.00	33.27	C
ATOM	1653	CD	ARG A 234	48.098	30.400	33.357	1.00	33.63	C
ATOM	1654	NE	ARG A 234	48.091	31.010	34.685	1.00	34.67	N
ATOM	1655	CZ	ARG A 234	48.883	32.009	35.060	1.00	34.84	C
ATOM	1656	NH1	ARG A 234	49.759	32.519	34.204	1.00	35.01	N
ATOM	1657	NH2	ARG A 234	48.794	32.502	36.289	1.00	35.15	N
ATOM	1658	C	ARG A 234	48.885	27.155	32.082	1.00	33.23	C
ATOM	1659	O	ARG A 234	49.760	27.458	32.901	1.00	33.10	O
ATOM	1660	N	THR A 235	48.464	25.906	31.897	1.00	32.93	N
ATOM	1661	CA	THR A 235	49.007	24.778	32.652	1.00	33.19	C
ATOM	1662	CB	THR A 235	48.201	23.486	32.368	1.00	32.74	C
ATOM	1663	OG1	THR A 235	46.879	23.637	32.899	1.00	32.01	O
ATOM	1664	CG2	THR A 235	48.867	22.262	33.013	1.00	32.30	C
ATOM	1665	C	THR A 235	50.475	24.564	32.290	1.00	33.74	C
ATOM	1666	O	THR A 235	51.327	24.396	33.170	1.00	33.08	O
ATOM	1667	N	ALA A 236	50.767	24.586	30.993	1.00	34.60	N
ATOM	1668	CA	ALA A 236	52.135	24.415	30.519	1.00	35.65	C
ATOM	1669	CB	ALA A 236	52.163	24.387	28.994	1.00	35.86	C
ATOM	1670	C	ALA A 236	53.021	25.548	31.042	1.00	36.35	C
ATOM	1671	O	ALA A 236	54.180	25.328	31.388	1.00	36.64	O
ATOM	1672	N	TRP A 237	52.480	26.761	31.109	1.00	37.16	N
ATOM	1673	CA	TRP A 237	53.261	27.893	31.599	1.00	38.00	C
ATOM	1674	CB	TRP A 237	52.509	29.208	31.380	1.00	38.98	C
ATOM	1675	CG	TRP A 237	53.355	30.429	31.649	1.00	40.50	C
ATOM	1676	CD2	TRP A 237	53.400	31.199	32.859	1.00	40.98	C
ATOM	1677	CE2	TRP A 237	54.352	32.228	32.667	1.00	41.43	C
ATOM	1678	CE3	TRP A 237	52.730	31.120	34.087	1.00	41.27	C
ATOM	1679	CD1	TRP A 237	54.260	31.006	30.797	1.00	41.31	C
ATOM	1680	NE1	TRP A 237	54.861	32.088	31.402	1.00	41.47	N
ATOM	1681	CZ2	TRP A 237	54.650	33.171	33.659	1.00	41.56	C
ATOM	1682	CZ3	TRP A 237	53.028	32.058	35.075	1.00	41.51	C
ATOM	1683	CH2	TRP A 237	53.980	33.070	34.852	1.00	41.65	C
ATOM	1684	C	TRP A 237	53.573	27.744	33.092	1.00	38.01	C
ATOM	1685	O	TRP A 237	54.687	28.035	33.537	1.00	37.78	O
ATOM	1686	N	LEU A 238	52.585	27.299	33.862	1.00	37.56	N
ATOM	1687	CA	LEU A 238	52.762	27.127	35.299	1.00	37.57	C
ATOM	1688	CB	LEU A 238	51.408	26.902	35.975	1.00	36.67	C
ATOM	1689	CG	LEU A 238	50.478	28.114	35.957	1.00	36.43	C
ATOM	1690	CD1	LEU A 238	49.116	27.731	36.487	1.00	36.24	C
ATOM	1691	CD2	LEU A 238	51.077	29.235	36.794	1.00	36.56	C
ATOM	1692	C	LEU A 238	53.703	25.977	35.622	1.00	37.81	C
ATOM	1693	O	LEU A 238	54.461	26.040	36.591	1.00	37.91	O
ATOM	1694	N	LEU A 239	53.660	24.923	34.819	1.00	38.48	N
ATOM	1695	CA	LEU A 239	54.540	23.791	35.057	1.00	39.58	C
ATOM	1696	CB	LEU A 239	54.163	22.619	34.149	1.00	39.09	C

Figure 10EE

ATOM	1697	CG	LEU A 239	52.839	21.921	34.493	1.00	38.87	C
ATOM	1698	CD1	LEU A 239	52.520	20.870	33.447	1.00	38.45	C
ATOM	1699	CD2	LEU A 239	52.936	21.293	35.881	1.00	38.47	C
ATOM	1700	C	LEU A 239	55.979	24.224	34.791	1.00	40.79	C
ATOM	1701	O	LEU A 239	56.927	23.586	35.249	1.00	40.92	O
ATOM	1702	N	GLU A 240	56.129	25.324	34.060	1.00	41.65	N
ATOM	1703	CA	GLU A 240	57.448	25.837	33.719	1.00	42.84	C
ATOM	1704	CB	GLU A 240	57.444	26.409	32.297	1.00	43.65	C
ATOM	1705	CG	GLU A 240	57.275	25.369	31.200	1.00	45.38	C
ATOM	1706	CD	GLU A 240	58.319	24.268	31.280	1.00	46.58	C
ATOM	1707	OE1	GLU A 240	59.529	24.596	31.325	1.00	47.04	O
ATOM	1708	OE2	GLU A 240	57.929	23.076	31.296	1.00	47.22	O
ATOM	1709	C	GLU A 240	57.961	26.905	34.667	1.00	43.09	C
ATOM	1710	O	GLU A 240	59.150	26.944	34.968	1.00	43.08	O
ATOM	1711	N	HIS A 241	57.069	27.767	35.143	1.00	43.49	N
ATOM	1712	CA	HIS A 241	57.486	28.858	36.011	1.00	44.38	C
ATOM	1713	CB	HIS A 241	57.070	30.186	35.364	1.00	45.65	C
ATOM	1714	CG	HIS A 241	57.586	30.367	33.967	1.00	47.27	C
ATOM	1715	CD2	HIS A 241	58.415	29.604	33.215	1.00	47.86	C
ATOM	1716	ND1	HIS A 241	57.237	31.442	33.178	1.00	47.83	N
ATOM	1717	CE1	HIS A 241	57.825	31.332	32.000	1.00	48.31	C
ATOM	1718	NE2	HIS A 241	58.546	30.225	31.996	1.00	48.70	N
ATOM	1719	C	HIS A 241	57.024	28.846	37.473	1.00	44.07	C
ATOM	1720	O	HIS A 241	57.400	29.741	38.232	1.00	44.13	O
ATOM	1721	N	GLU A 242	56.236	27.853	37.886	1.00	43.53	N
ATOM	1722	CA	GLU A 242	55.754	27.839	39.269	1.00	42.98	C
ATOM	1723	CB	GLU A 242	54.421	28.589	39.359	1.00	43.70	C
ATOM	1724	CG	GLU A 242	54.522	30.087	39.173	1.00	44.78	C
ATOM	1725	CD	GLU A 242	53.167	30.759	39.210	1.00	45.69	C
ATOM	1726	OE1	GLU A 242	52.341	30.397	40.081	1.00	45.73	O
ATOM	1727	OE2	GLU A 242	52.930	31.658	38.375	1.00	46.45	O
ATOM	1728	C	GLU A 242	55.578	26.498	39.977	1.00	42.31	C
ATOM	1729	O	GLU A 242	55.680	26.430	41.200	1.00	42.11	O
ATOM	1730	N	ALA A 243	55.306	25.439	39.224	1.00	41.35	N
ATOM	1731	CA	ALA A 243	55.072	24.127	39.820	1.00	40.63	C
ATOM	1732	CB	ALA A 243	54.557	23.163	38.758	1.00	40.62	C
ATOM	1733	C	ALA A 243	56.262	23.498	40.540	1.00	40.38	C
ATOM	1734	O	ALA A 243	57.382	23.480	40.025	1.00	39.78	O
ATOM	1735	N	PRO A 244	56.028	22.970	41.753	1.00	39.91	N
ATOM	1736	CD	PRO A 244	54.781	23.031	42.540	1.00	39.77	C
ATOM	1737	CA	PRO A 244	57.102	22.331	42.518	1.00	39.80	C
ATOM	1738	CB	PRO A 244	56.495	22.194	43.914	1.00	39.91	C
ATOM	1739	CG	PRO A 244	55.026	21.998	43.617	1.00	39.75	C
ATOM	1740	C	PRO A 244	57.415	20.982	41.875	1.00	39.90	C
ATOM	1741	O	PRO A 244	56.603	20.452	41.114	1.00	39.34	O
ATOM	1742	N	ASP A 245	58.588	20.431	42.176	1.00	40.00	N
ATOM	1743	CA	ASP A 245	59.011	19.149	41.615	1.00	40.24	C
ATOM	1744	CB	ASP A 245	60.516	18.947	41.853	1.00	41.09	C
ATOM	1745	CG	ASP A 245	61.071	17.750	41.102	1.00	41.84	C
ATOM	1746	OD1	ASP A 245	62.133	17.226	41.501	1.00	42.48	O
ATOM	1747	OD2	ASP A 245	60.455	17.334	40.100	1.00	42.69	O
ATOM	1748	C	ASP A 245	58.245	17.957	42.193	1.00	40.06	C
ATOM	1749	O	ASP A 245	58.817	17.131	42.907	1.00	40.25	O
ATOM	1750	N	ALA A 246	56.954	17.864	41.882	1.00	39.77	N
ATOM	1751	CA	ALA A 246	56.121	16.765	42.364	1.00	39.54	C
ATOM	1752	CB	ALA A 246	54.836	17.313	42.982	1.00	39.39	C
ATOM	1753	C	ALA A 246	55.796	15.857	41.182	1.00	39.56	C
ATOM	1754	O	ALA A 246	54.964	16.194	40.338	1.00	39.19	O

Figure 10FF

ATOM	1755	N	LYS A 247	56.446	14.699	41.129	1.00	39.47	N
ATOM	1756	CA	LYS A 247	56.245	13.771	40.024	1.00	39.58	C
ATOM	1757	CB	LYS A 247	57.416	13.892	39.049	1.00	40.22	C
ATOM	1758	CG	LYS A 247	58.777	13.707	39.705	1.00	41.70	C
ATOM	1759	CD	LYS A 247	59.910	13.916	38.706	1.00	43.00	C
ATOM	1760	CE	LYS A 247	61.266	13.866	39.394	1.00	43.78	C
ATOM	1761	NZ	LYS A 247	61.482	12.561	40.080	1.00	45.10	N
ATOM	1762	C	LYS A 247	56.097	12.317	40.450	1.00	39.34	C
ATOM	1763	O	LYS A 247	56.453	11.941	41.564	1.00	39.51	O
ATOM	1764	N	SER A 248	55.583	11.499	39.539	1.00	38.98	N
ATOM	1765	CA	SER A 248	55.385	10.082	39.793	1.00	38.69	C
ATOM	1766	CB	SER A 248	54.009	9.856	40.435	1.00	38.62	C
ATOM	1767	OG	SER A 248	53.728	8.479	40.587	1.00	38.23	O
ATOM	1768	C	SER A 248	55.487	9.286	38.492	1.00	38.63	C
ATOM	1769	O	SER A 248	55.262	9.820	37.405	1.00	38.34	O
ATOM	1770	N	ALA A 249	55.830	8.007	38.609	1.00	38.50	N
ATOM	1771	CA	ALA A 249	55.941	7.150	37.438	1.00	38.58	C
ATOM	1772	CB	ALA A 249	57.195	6.275	37.536	1.00	38.58	C
ATOM	1773	C	ALA A 249	54.691	6.281	37.308	1.00	38.38	C
ATOM	1774	O	ALA A 249	54.529	5.558	36.326	1.00	38.36	O
ATOM	1775	N	ASP A 250	53.805	6.357	38.299	1.00	38.17	N
ATOM	1776	CA	ASP A 250	52.572	5.576	38.269	1.00	37.75	C
ATOM	1777	CB	ASP A 250	51.765	5.767	39.562	1.00	38.49	C
ATOM	1778	CG	ASP A 250	52.435	5.136	40.773	1.00	39.62	C
ATOM	1779	OD1	ASP A 250	53.432	4.403	40.593	1.00	40.12	O
ATOM	1780	OD2	ASP A 250	51.960	5.365	41.909	1.00	39.88	O
ATOM	1781	C	ASP A 250	51.722	5.995	37.076	1.00	36.87	C
ATOM	1782	O	ASP A 250	51.859	7.106	36.563	1.00	37.25	O
ATOM	1783	N	ALA A 251	50.845	5.100	36.636	1.00	36.01	N
ATOM	1784	CA	ALA A 251	49.971	5.379	35.504	1.00	34.97	C
ATOM	1785	CB	ALA A 251	49.359	4.086	34.990	1.00	35.52	C
ATOM	1786	C	ALA A 251	48.868	6.349	35.918	1.00	33.97	C
ATOM	1787	O	ALA A 251	48.624	6.547	37.107	1.00	33.63	O
ATOM	1788	N	ASN A 252	48.206	6.948	34.933	1.00	32.74	N
ATOM	1789	CA	ASN A 252	47.131	7.894	35.204	1.00	31.53	C
ATOM	1790	CB	ASN A 252	46.550	8.451	33.903	1.00	31.29	C
ATOM	1791	CG	ASN A 252	47.583	9.156	33.059	1.00	31.11	C
ATOM	1792	OD1	ASN A 252	48.532	9.745	33.580	1.00	30.92	O
ATOM	1793	ND2	ASN A 252	47.397	9.118	31.747	1.00	31.17	N
ATOM	1794	C	ASN A 252	46.025	7.202	35.983	1.00	30.57	C
ATOM	1795	O	ASN A 252	45.737	6.032	35.755	1.00	30.37	O
ATOM	1796	N	ILE A 253	45.398	7.929	36.896	1.00	29.76	N
ATOM	1797	CA	ILE A 253	44.331	7.340	37.694	1.00	29.03	C
ATOM	1798	CB	ILE A 253	44.880	6.919	39.080	1.00	29.45	C
ATOM	1799	CG2	ILE A 253	45.374	8.139	39.833	1.00	29.70	C
ATOM	1800	CG1	ILE A 253	43.802	6.198	39.888	1.00	30.29	C
ATOM	1801	CD1	ILE A 253	44.292	5.736	41.244	1.00	31.33	C
ATOM	1802	C	ILE A 253	43.141	8.286	37.875	1.00	28.11	C
ATOM	1803	O	ILE A 253	43.297	9.512	37.893	1.00	27.59	O
ATOM	1804	N	ALA A 254	41.948	7.705	37.979	1.00	26.97	N
ATOM	1805	CA	ALA A 254	40.733	8.479	38.183	1.00	25.96	C
ATOM	1806	CB	ALA A 254	39.685	8.123	37.125	1.00	25.54	C
ATOM	1807	C	ALA A 254	40.200	8.167	39.578	1.00	25.64	C
ATOM	1808	O	ALA A 254	40.217	7.010	40.013	1.00	25.40	O
ATOM	1809	N	PHE A 255	39.749	9.203	40.276	1.00	24.93	N
ATOM	1810	CA	PHE A 255	39.188	9.061	41.619	1.00	25.25	C
ATOM	1811	CB	PHE A 255	39.931	9.936	42.633	1.00	24.82	C
ATOM	1812	CG	PHE A 255	41.278	9.416	43.044	1.00	25.59	C

Figure 10GG

ATOM	1813	CD1 PHE A 255	42.399	10.235	42.953	1.00	25.46	C
ATOM	1814	CD2 PHE A 255	41.422	8.132	43.559	1.00	26.01	C
ATOM	1815	CE1 PHE A 255	43.650	9.789	43.368	1.00	26.29	C
ATOM	1816	CE2 PHE A 255	42.671	7.668	43.982	1.00	26.91	C
ATOM	1817	CZ PHE A 255	43.790	8.500	43.884	1.00	26.72	C
ATOM	1818	C PHE A 255	37.726	9.503	41.663	1.00	25.33	C
ATOM	1819	O PHE A 255	37.370	10.562	41.140	1.00	25.42	O
ATOM	1820	N CYS A 256	36.874	8.698	42.284	1.00	25.82	N
ATOM	1821	CA CYS A 256	35.482	9.099	42.462	1.00	26.46	C
ATOM	1822	CB CYS A 256	34.512	8.041	41.920	1.00	27.23	C
ATOM	1823	SG CYS A 256	34.653	6.407	42.664	1.00	29.02	S
ATOM	1824	C CYS A 256	35.364	9.237	43.983	1.00	26.79	C
ATOM	1825	O CYS A 256	36.246	8.775	44.715	1.00	26.33	O
ATOM	1826	N MET A 257	34.308	9.877	44.475	1.00	27.23	N
ATOM	1827	CA MET A 257	34.174	10.030	45.924	1.00	27.99	C
ATOM	1828	CB MET A 257	33.566	11.395	46.270	1.00	28.01	C
ATOM	1829	CG MET A 257	34.365	12.586	45.730	1.00	28.41	C
ATOM	1830	SD MET A 257	36.165	12.503	46.030	1.00	29.78	S
ATOM	1831	CE MET A 257	36.802	12.840	44.372	1.00	29.70	C
ATOM	1832	C MET A 257	33.343	8.903	46.536	1.00	28.39	C
ATOM	1833	O MET A 257	33.310	8.733	47.754	1.00	28.39	O
ATOM	1834	N ALA A 258	32.691	8.128	45.679	1.00	29.08	N
ATOM	1835	CA ALA A 258	31.880	6.999	46.117	1.00	30.02	C
ATOM	1836	CB ALA A 258	30.474	7.460	46.494	1.00	29.75	C
ATOM	1837	C ALA A 258	31.814	6.007	44.969	1.00	30.76	C
ATOM	1838	O ALA A 258	31.509	6.379	43.837	1.00	30.44	O
ATOM	1839	N MET A 259	32.111	4.747	45.259	1.00	31.73	N
ATOM	1840	CA MET A 259	32.084	3.712	44.236	1.00	32.90	C
ATOM	1841	CB MET A 259	32.945	2.527	44.675	1.00	34.30	C
ATOM	1842	CG MET A 259	33.303	1.566	43.559	1.00	36.54	C
ATOM	1843	SD MET A 259	34.242	2.358	42.237	1.00	38.48	S
ATOM	1844	CE MET A 259	35.844	2.502	42.974	1.00	37.84	C
ATOM	1845	C MET A 259	30.638	3.283	44.029	1.00	33.14	C
ATOM	1846	O MET A 259	30.189	2.272	44.569	1.00	33.45	O
ATOM	1847	N THR A 260	29.912	4.076	43.250	1.00	32.81	N
ATOM	1848	CA THR A 260	28.509	3.827	42.955	1.00	32.55	C
ATOM	1849	CB THR A 260	27.706	5.132	42.987	1.00	32.69	C
ATOM	1850	OG1 THR A 260	28.140	5.973	41.907	1.00	32.32	O
ATOM	1851	CG2 THR A 260	27.911	5.857	44.304	1.00	32.38	C
ATOM	1852	C THR A 260	28.362	3.260	41.551	1.00	32.45	C
ATOM	1853	O THR A 260	29.311	3.264	40.765	1.00	32.43	O
ATOM	1854	N PRO A 261	27.165	2.765	41.212	1.00	32.43	N
ATOM	1855	CD PRO A 261	26.012	2.408	42.064	1.00	32.73	C
ATOM	1856	CA PRO A 261	27.002	2.227	39.862	1.00	32.04	C
ATOM	1857	CB PRO A 261	25.559	1.726	39.864	1.00	32.40	C
ATOM	1858	CG PRO A 261	25.383	1.268	41.293	1.00	32.56	C
ATOM	1859	C PRO A 261	27.244	3.333	38.835	1.00	31.88	C
ATOM	1860	O PRO A 261	27.850	3.096	37.796	1.00	31.83	O
ATOM	1861	N GLY A 262	26.779	4.545	39.139	1.00	31.39	N
ATOM	1862	CA GLY A 262	26.971	5.660	38.225	1.00	30.93	C
ATOM	1863	C GLY A 262	28.439	5.941	37.935	1.00	30.03	C
ATOM	1864	O GLY A 262	28.831	6.103	36.782	1.00	30.46	O
ATOM	1865	N ALA A 263	29.254	6.003	38.980	1.00	29.43	N
ATOM	1866	CA ALA A 263	30.678	6.248	38.816	1.00	28.87	C
ATOM	1867	CB ALA A 263	31.342	6.409	40.178	1.00	28.90	C
ATOM	1868	C ALA A 263	31.329	5.099	38.052	1.00	28.88	C
ATOM	1869	O ALA A 263	32.162	5.314	37.170	1.00	28.36	O
ATOM	1870	N GLU A 264	30.944	3.874	38.396	1.00	28.76	N

Figure 10HH

ATOM	1871	CA	GLU A 264	31.505	2.691	37.752	1.00	29.21	C
ATOM	1872	CB	GLU A 264	30.980	1.432	38.457	1.00	29.05	C
ATOM	1873	CG	GLU A 264	31.358	1.396	39.931	1.00	29.36	C
ATOM	1874	CD	GLU A 264	30.506	0.450	40.767	1.00	29.84	C
ATOM	1875	OE1	GLU A 264	29.389	0.097	40.345	1.00	29.77	O
ATOM	1876	OE2	GLU A 264	30.955	0.080	41.870	1.00	30.70	O
ATOM	1877	C	GLU A 264	31.187	2.662	36.258	1.00	29.35	C
ATOM	1878	O	GLU A 264	32.006	2.220	35.451	1.00	29.37	O
ATOM	1879	N	GLN A 265	30.010	3.157	35.892	1.00	29.70	N
ATOM	1880	CA	GLN A 265	29.601	3.179	34.495	1.00	30.44	C
ATOM	1881	CB	GLN A 265	28.137	3.606	34.381	1.00	31.82	C
ATOM	1882	CG	GLN A 265	27.210	2.667	35.117	1.00	35.27	C
ATOM	1883	CD	GLN A 265	25.751	3.021	34.954	1.00	37.03	C
ATOM	1884	OE1	GLN A 265	24.889	2.428	35.607	1.00	39.00	O
ATOM	1885	NE2	GLN A 265	25.459	3.984	34.078	1.00	38.41	N
ATOM	1886	C	GLN A 265	30.474	4.076	33.621	1.00	29.94	C
ATOM	1887	O	GLN A 265	30.392	4.015	32.396	1.00	29.87	O
ATOM	1888	N	LEU A 266	31.299	4.906	34.247	1.00	29.15	N
ATOM	1889	CA	LEU A 266	32.198	5.791	33.506	1.00	29.01	C
ATOM	1890	CB	LEU A 266	32.496	7.055	34.318	1.00	28.73	C
ATOM	1891	CG	LEU A 266	31.367	8.075	34.425	1.00	29.05	C
ATOM	1892	CD1	LEU A 266	31.842	9.274	35.237	1.00	28.78	C
ATOM	1893	CD2	LEU A 266	30.937	8.502	33.024	1.00	28.78	C
ATOM	1894	C	LEU A 266	33.523	5.113	33.169	1.00	28.86	C
ATOM	1895	O	LEU A 266	34.319	5.643	32.386	1.00	28.44	O
ATOM	1896	N	LEU A 267	33.757	3.939	33.751	1.00	28.56	N
ATOM	1897	CA	LEU A 267	35.010	3.232	33.533	1.00	28.80	C
ATOM	1898	CB	LEU A 267	34.943	1.824	34.133	1.00	29.49	C
ATOM	1899	CG	LEU A 267	36.275	1.073	34.136	1.00	29.76	C
ATOM	1900	CD1	LEU A 267	37.305	1.829	34.979	1.00	29.91	C
ATOM	1901	CD2	LEU A 267	36.058	-0.329	34.700	1.00	30.42	C
ATOM	1902	C	LEU A 267	35.483	3.150	32.080	1.00	28.65	C
ATOM	1903	O	LEU A 267	36.609	3.529	31.782	1.00	28.27	O
ATOM	1904	N	PRO A 268	34.635	2.655	31.161	1.00	28.76	N
ATOM	1905	CD	PRO A 268	33.250	2.185	31.327	1.00	29.21	C
ATOM	1906	CA	PRO A 268	35.058	2.559	29.759	1.00	29.10	C
ATOM	1907	CB	PRO A 268	33.849	1.920	29.074	1.00	29.23	C
ATOM	1908	CG	PRO A 268	32.695	2.343	29.937	1.00	29.74	C
ATOM	1909	C	PRO A 268	35.470	3.902	29.135	1.00	29.03	C
ATOM	1910	O	PRO A 268	36.458	3.971	28.408	1.00	28.44	O
ATOM	1911	N	VAL A 269	34.719	4.961	29.422	1.00	29.23	N
ATOM	1912	CA	VAL A 269	35.045	6.283	28.885	1.00	29.50	C
ATOM	1913	CB	VAL A 269	33.888	7.279	29.118	1.00	30.12	C
ATOM	1914	CG1	VAL A 269	34.278	8.681	28.649	1.00	31.29	C
ATOM	1915	CG2	VAL A 269	32.667	6.812	28.338	1.00	31.48	C
ATOM	1916	C	VAL A 269	36.328	6.791	29.536	1.00	29.16	C
ATOM	1917	O	VAL A 269	37.220	7.299	28.852	1.00	29.31	O
ATOM	1918	N	LEU A 270	36.438	6.635	30.853	1.00	28.36	N
ATOM	1919	CA	LEU A 270	37.640	7.062	31.547	1.00	28.07	C
ATOM	1920	CB	LEU A 270	37.531	6.749	33.048	1.00	27.79	C
ATOM	1921	CG	LEU A 270	36.555	7.621	33.858	1.00	27.73	C
ATOM	1922	CD1	LEU A 270	36.423	7.075	35.273	1.00	26.65	C
ATOM	1923	CD2	LEU A 270	37.060	9.062	33.893	1.00	27.37	C
ATOM	1924	C	LEU A 270	38.859	6.358	30.942	1.00	28.42	C
ATOM	1925	O	LEU A 270	39.918	6.968	30.759	1.00	28.07	O
ATOM	1926	N	GLN A 271	38.706	5.075	30.620	1.00	28.62	N
ATOM	1927	CA	GLN A 271	39.803	4.309	30.036	1.00	29.58	C
ATOM	1928	CB	GLN A 271	39.446	2.815	30.009	1.00	29.77	C

Figure 10II

ATOM	1929	CG	GLN A 271	39.562	2.171	31.395	1.00	29.56	C
ATOM	1930	CD	GLN A 271	39.100	0.719	31.441	1.00	30.15	C
ATOM	1931	OE1	GLN A 271	39.476	-0.030	32.346	1.00	30.14	O
ATOM	1932	NE2	GLN A 271	38.276	0.322	30.480	1.00	29.92	N
ATOM	1933	C	GLN A 271	40.154	4.831	28.641	1.00	30.09	C
ATOM	1934	O	GLN A 271	41.333	4.935	28.298	1.00	30.05	O
ATOM	1935	N	ARG A 272	39.139	5.173	27.850	1.00	30.62	N
ATOM	1936	CA	ARG A 272	39.372	5.733	26.519	1.00	32.09	C
ATOM	1937	CB	ARG A 272	38.051	5.959	25.769	1.00	33.56	C
ATOM	1938	CG	ARG A 272	37.497	4.712	25.080	1.00	36.87	C
ATOM	1939	CD	ARG A 272	36.510	5.071	23.966	1.00	39.07	C
ATOM	1940	NE	ARG A 272	35.236	5.575	24.474	1.00	41.31	N
ATOM	1941	CZ	ARG A 272	34.331	4.826	25.101	1.00	42.35	C
ATOM	1942	NH1	ARG A 272	34.557	3.529	25.295	1.00	42.99	N
ATOM	1943	NH2	ARG A 272	33.201	5.372	25.538	1.00	42.53	N
ATOM	1944	C	ARG A 272	40.119	7.066	26.646	1.00	31.71	C
ATOM	1945	O	ARG A 272	40.888	7.441	25.758	1.00	31.85	O
ATOM	1946	N	TYR A 273	39.892	7.775	27.751	1.00	31.12	N
ATOM	1947	CA	TYR A 273	40.560	9.053	27.996	1.00	30.49	C
ATOM	1948	CB	TYR A 273	39.764	9.912	28.988	1.00	30.13	C
ATOM	1949	CG	TYR A 273	38.764	10.843	28.338	1.00	30.08	C
ATOM	1950	CD1	TYR A 273	37.423	10.485	28.209	1.00	30.27	C
ATOM	1951	CE1	TYR A 273	36.506	11.337	27.600	1.00	30.56	C
ATOM	1952	CD2	TYR A 273	39.165	12.084	27.840	1.00	30.11	C
ATOM	1953	CE2	TYR A 273	38.257	12.944	27.231	1.00	30.62	C
ATOM	1954	CZ	TYR A 273	36.932	12.566	27.113	1.00	31.12	C
ATOM	1955	OH	TYR A 273	36.035	13.413	26.506	1.00	31.48	O
ATOM	1956	C	TYR A 273	41.992	8.902	28.510	1.00	30.66	C
ATOM	1957	O	TYR A 273	42.738	9.878	28.577	1.00	30.68	O
ATOM	1958	N	GLY A 274	42.383	7.687	28.879	1.00	30.61	N
ATOM	1959	CA	GLY A 274	43.740	7.489	29.356	1.00	30.77	C
ATOM	1960	C	GLY A 274	43.881	7.150	30.830	1.00	31.11	C
ATOM	1961	O	GLY A 274	44.991	7.138	31.358	1.00	30.91	O
ATOM	1962	N	PHE A 275	42.766	6.888	31.503	1.00	31.47	N
ATOM	1963	CA	PHE A 275	42.810	6.527	32.918	1.00	32.19	C
ATOM	1964	CB	PHE A 275	41.801	7.348	33.728	1.00	31.21	C
ATOM	1965	CG	PHE A 275	42.032	8.831	33.653	1.00	30.69	C
ATOM	1966	CD1	PHE A 275	41.342	9.611	32.729	1.00	30.41	C
ATOM	1967	CD2	PHE A 275	42.970	9.441	34.477	1.00	29.75	C
ATOM	1968	CE1	PHE A 275	41.587	10.983	32.624	1.00	30.10	C
ATOM	1969	CE2	PHE A 275	43.223	10.809	34.382	1.00	30.33	C
ATOM	1970	CZ	PHE A 275	42.529	11.582	33.451	1.00	30.15	C
ATOM	1971	C	PHE A 275	42.471	5.048	33.007	1.00	33.19	C
ATOM	1972	O	PHE A 275	41.321	4.655	32.821	1.00	33.75	O
ATOM	1973	N	GLU A 276	43.484	4.234	33.277	1.00	34.59	N
ATOM	1974	CA	GLU A 276	43.310	2.789	33.361	1.00	36.07	C
ATOM	1975	CB	GLU A 276	44.675	2.103	33.438	1.00	37.83	C
ATOM	1976	CG	GLU A 276	45.583	2.659	34.528	1.00	39.84	C
ATOM	1977	CD	GLU A 276	46.443	1.587	35.173	1.00	41.24	C
ATOM	1978	OE1	GLU A 276	46.984	0.727	34.439	1.00	42.52	O
ATOM	1979	OE2	GLU A 276	46.588	1.607	36.415	1.00	41.91	O
ATOM	1980	C	GLU A 276	42.478	2.336	34.544	1.00	35.79	C
ATOM	1981	O	GLU A 276	41.703	1.381	34.442	1.00	35.99	O
ATOM	1982	N	THR A 277	42.632	3.035	35.662	1.00	35.29	N
ATOM	1983	CA	THR A 277	41.938	2.665	36.885	1.00	35.33	C
ATOM	1984	CB	THR A 277	42.976	2.238	37.953	1.00	35.95	C
ATOM	1985	OG1	THR A 277	43.827	1.222	37.404	1.00	37.35	O
ATOM	1986	CG2	THR A 277	42.292	1.707	39.198	1.00	36.44	C

Figure 10JJ

ATOM	1987	C	THR A 277	41.056	3.753	37.487	1.00	34.38	C
ATOM	1988	O	THR A 277	41.325	4.946	37.339	1.00	33.90	O
ATOM	1989	N	LEU A 278	39.999	3.309	38.162	1.00	33.42	N
ATOM	1990	CA	LEU A 278	39.063	4.180	38.860	1.00	32.84	C
ATOM	1991	CB	LEU A 278	37.660	4.078	38.261	1.00	32.25	C
ATOM	1992	CG	LEU A 278	36.557	4.754	39.080	1.00	31.65	C
ATOM	1993	CD1	LEU A 278	36.739	6.269	39.067	1.00	31.85	C
ATOM	1994	CD2	LEU A 278	35.204	4.385	38.506	1.00	32.00	C
ATOM	1995	C	LEU A 278	39.029	3.683	40.301	1.00	32.90	C
ATOM	1996	O	LEU A 278	38.696	2.523	40.551	1.00	32.50	O
ATOM	1997	N	GLU A 279	39.390	4.549	41.242	1.00	32.79	N
ATOM	1998	CA	GLU A 279	39.390	4.191	42.657	1.00	33.18	C
ATOM	1999	CB	GLU A 279	40.821	4.141	43.212	1.00	33.85	C
ATOM	2000	CG	GLU A 279	41.704	3.034	42.652	1.00	34.93	C
ATOM	2001	CD	GLU A 279	43.103	3.054	43.243	1.00	35.80	C
ATOM	2002	OE1	GLU A 279	43.990	2.345	42.711	1.00	37.17	O
ATOM	2003	OE2	GLU A 279	43.323	3.773	44.242	1.00	35.89	O
ATOM	2004	C	GLU A 279	38.596	5.205	43.472	1.00	33.21	C
ATOM	2005	O	GLU A 279	38.373	6.340	43.037	1.00	31.95	O
ATOM	2006	N	LYS A 280	38.173	4.786	44.660	1.00	33.51	N
ATOM	2007	CA	LYS A 280	37.438	5.666	45.550	1.00	34.17	C
ATOM	2008	CB	LYS A 280	36.529	4.868	46.489	1.00	34.76	C
ATOM	2009	CG	LYS A 280	35.955	5.721	47.620	1.00	35.25	C
ATOM	2010	CD	LYS A 280	34.963	4.950	48.463	1.00	36.16	C
ATOM	2011	CE	LYS A 280	34.444	5.796	49.618	1.00	36.76	C
ATOM	2012	NZ	LYS A 280	33.323	5.103	50.330	1.00	37.23	N
ATOM	2013	C	LYS A 280	38.437	6.456	46.382	1.00	34.45	C
ATOM	2014	O	LYS A 280	39.405	5.901	46.896	1.00	34.38	O
ATOM	2015	N	LEU A 281	38.204	7.756	46.503	1.00	34.75	N
ATOM	2016	CA	LEU A 281	39.079	8.605	47.293	1.00	35.65	C
ATOM	2017	CB	LEU A 281	39.370	9.908	46.550	1.00	35.08	C
ATOM	2018	CG	LEU A 281	40.280	10.898	47.278	1.00	34.82	C
ATOM	2019	CD1	LEU A 281	41.691	10.337	47.360	1.00	34.07	C
ATOM	2020	CD2	LEU A 281	40.273	12.230	46.537	1.00	34.40	C
ATOM	2021	C	LEU A 281	38.392	8.920	48.618	1.00	36.70	C
ATOM	2022	O	LEU A 281	37.230	9.325	48.635	1.00	36.57	O
ATOM	2023	N	ALA A 282	39.105	8.726	49.722	1.00	37.88	N
ATOM	2024	CA	ALA A 282	38.551	9.008	51.045	1.00	39.41	C
ATOM	2025	CB	ALA A 282	39.297	8.204	52.111	1.00	39.19	C
ATOM	2026	C	ALA A 282	38.687	10.501	51.327	1.00	40.14	C
ATOM	2027	O	ALA A 282	39.798	11.023	51.394	1.00	40.34	O
ATOM	2028	N	VAL A 283	37.556	11.179	51.500	1.00	41.23	N
ATOM	2029	CA	VAL A 283	37.550	12.617	51.757	1.00	42.40	C
ATOM	2030	CB	VAL A 283	36.640	13.340	50.746	1.00	42.15	C
ATOM	2031	CG1	VAL A 283	36.654	14.834	51.008	1.00	42.12	C
ATOM	2032	CG2	VAL A 283	37.097	13.037	49.330	1.00	42.22	C
ATOM	2033	C	VAL A 283	37.073	12.974	53.168	1.00	43.56	C
ATOM	2034	O	VAL A 283	36.188	12.315	53.718	1.00	43.82	O
ATOM	2035	N	LEU A 284	37.658	14.025	53.743	1.00	44.69	N
ATOM	2036	CA	LEU A 284	37.290	14.488	55.084	1.00	45.88	C
ATOM	2037	CB	LEU A 284	38.534	14.635	55.968	1.00	46.17	C
ATOM	2038	CG	LEU A 284	39.537	13.487	56.073	1.00	46.66	C
ATOM	2039	CD1	LEU A 284	40.567	13.830	57.143	1.00	46.97	C
ATOM	2040	CD2	LEU A 284	38.822	12.191	56.420	1.00	46.95	C
ATOM	2041	C	LEU A 284	36.591	15.844	55.006	1.00	46.59	C
ATOM	2042	O	LEU A 284	36.980	16.790	55.699	1.00	47.10	O
ATOM	2043	N	GLY A 285	35.567	15.945	54.165	1.00	47.04	N
ATOM	2044	CA	GLY A 285	34.858	17.204	54.025	1.00	47.76	C

Figure 10KK

ATOM	2045	C	GLY A 285	33.866	17.240	52.875	1.00	47.90	C
ATOM	2046	O	GLY A 285	32.783	17.840	53.035	1.00	48.58	O
ATOM	2047	OXT	GLY A 285	34.176	16.690	51.803	1.00	48.12	O
ATOM	2107	OH2	WAT S 1	28.597	26.858	34.170	1.00	35.33	O
ATOM	2108	OH2	WAT S 2	39.874	15.622	52.951	1.00	27.02	O
ATOM	2109	OH2	WAT S 3	47.806	29.582	41.793	1.00	26.82	O
ATOM	2110	OH2	WAT S 4	32.712	12.071	49.955	1.00	33.48	O
ATOM	2111	OH2	WAT S 5	34.388	29.141	28.290	1.00	23.66	O
ATOM	2112	OH2	WAT S 6	29.860	12.057	36.929	1.00	28.75	O
ATOM	2113	OH2	WAT S 7	18.596	31.078	31.314	1.00	34.56	O
ATOM	2114	OH2	WAT S 8	43.746	30.135	36.454	1.00	31.70	O
ATOM	2115	OH2	WAT S 9	40.710	28.228	24.786	1.00	32.34	O
ATOM	2116	OH2	WAT S 10	40.249	20.233	54.144	1.00	31.31	O
ATOM	2117	OH2	WAT S 11	50.729	22.205	49.175	1.00	29.78	O
ATOM	2118	OH2	WAT S 12	36.244	25.185	28.517	1.00	31.80	O
ATOM	2119	OH2	WAT S 13	29.586	1.690	31.020	1.00	35.67	O
ATOM	2120	OH2	WAT S 14	27.347	8.426	41.609	1.00	33.85	O
ATOM	2121	OH2	WAT S 15	37.753	30.653	48.262	1.00	31.49	O
ATOM	2122	OH2	WAT S 16	39.852	0.508	38.143	1.00	34.51	O
ATOM	2123	OH2	WAT S 17	49.787	10.549	30.555	1.00	37.19	O
ATOM	2124	OH2	WAT S 18	48.590	27.775	45.618	1.00	37.05	O
ATOM	2125	OH2	WAT S 19	46.426	30.341	36.837	1.00	31.78	O
ATOM	2126	OH2	WAT S 20	26.420	26.789	43.445	1.00	49.61	O
ATOM	2127	OH2	WAT S 21	46.268	30.739	29.048	1.00	36.68	O
ATOM	2128	OH2	WAT S 22	51.867	28.804	43.136	1.00	49.35	O
ATOM	2129	OH2	WAT S 23	36.825	15.509	25.141	1.00	33.48	O
ATOM	2130	OH2	WAT S 24	33.895	12.303	25.137	1.00	32.90	O
ATOM	2131	OH2	WAT S 25	36.781	35.492	29.625	1.00	32.04	O
ATOM	2132	OH2	WAT S 26	33.992	25.683	29.926	1.00	34.00	O
ATOM	2133	OH2	WAT S 27	24.645	23.077	49.434	1.00	37.03	O
ATOM	2134	OH2	WAT S 28	37.658	21.847	53.629	1.00	28.23	O
ATOM	2135	OH2	WAT S 29	43.589	10.679	50.593	1.00	35.31	O
ATOM	2136	OH2	WAT S 30	23.719	24.494	52.323	1.00	35.79	O
ATOM	2137	OH2	WAT S 31	39.337	10.396	24.048	1.00	52.48	O
ATOM	2138	OH2	WAT S 32	30.718	16.193	20.614	1.00	43.40	O
ATOM	2139	OH2	WAT S 33	54.666	8.115	42.921	1.00	47.38	O
ATOM	2140	OH2	WAT S 34	31.589	30.437	35.873	1.00	47.91	O
ATOM	2141	OH2	WAT S 35	50.340	32.089	31.165	1.00	41.42	O
ATOM	2142	OH2	WAT S 36	52.796	22.874	51.515	1.00	43.37	O
ATOM	2143	OH2	WAT S 37	55.373	22.792	30.536	1.00	57.15	O
ATOM	2144	OH2	WAT S 38	39.463	35.817	35.231	1.00	32.47	O
ATOM	2145	OH2	WAT S 39	16.092	27.159	27.724	1.00	37.21	O
ATOM	2146	OH2	WAT S 40	25.640	24.780	14.005	1.00	45.10	O
ATOM	2147	OH2	WAT S 41	50.761	2.536	38.098	1.00	52.36	O
ATOM	2148	OH2	WAT S 42	18.634	34.668	30.052	1.00	43.13	O
ATOM	2149	OH2	WAT S 43	38.535	-2.076	28.925	1.00	32.09	O
ATOM	2150	OH2	WAT S 44	13.196	24.012	19.544	1.00	39.80	O
ATOM	2151	OH2	WAT S 45	31.357	26.426	13.729	1.00	42.37	O
ATOM	2152	OH2	WAT S 46	52.281	28.184	27.760	1.00	36.04	O
ATOM	2153	OH2	WAT S 47	46.418	33.201	38.411	1.00	44.49	O
ATOM	2154	OH2	WAT S 48	53.339	19.767	45.907	1.00	33.06	O
ATOM	2155	OH2	WAT S 49	46.967	16.612	52.076	1.00	30.83	O
ATOM	2156	OH2	WAT S 50	36.971	22.531	27.836	1.00	27.70	O
ATOM	2157	OH2	WAT S 51	34.404	33.315	13.713	1.00	63.94	O
ATOM	2158	OH2	WAT S 52	25.500	12.910	42.366	1.00	44.85	O
ATOM	2159	OH2	WAT S 53	41.068	33.656	19.666	1.00	61.38	O
ATOM	2160	OH2	WAT S 54	47.085	26.379	21.851	1.00	40.28	O
ATOM	2161	OH2	WAT S 55	20.530	37.341	28.713	1.00	42.17	O

Figure 10LL

ATOM	2162	OH2 WAT S	56	45.303	21.686	23.767	1.00	31.71	O
ATOM	2163	OH2 WAT S	57	32.171	3.766	47.945	1.00	39.12	O
ATOM	2164	OH2 WAT S	58	29.040	34.613	43.652	1.00	54.88	O
ATOM	2165	OH2 WAT S	59	63.169	17.639	43.696	1.00	51.86	O
ATOM	2166	OH2 WAT S	60	17.466	39.005	16.986	1.00	43.71	O
ATOM	2167	OH2 WAT S	61	31.214	5.360	30.303	1.00	35.40	O
ATOM	2168	OH2 WAT S	62	32.083	34.301	14.884	1.00	43.78	O
ATOM	2169	OH2 WAT S	63	56.027	25.650	46.067	1.00	55.28	O
ATOM	2170	OH2 WAT S	64	49.021	30.852	29.187	1.00	36.47	O
ATOM	2171	OH2 WAT S	65	23.639	30.939	17.071	1.00	45.30	O
ATOM	2172	OH2 WAT S	66	37.468	39.280	36.056	1.00	51.85	O
ATOM	2173	OH2 WAT S	67	36.224	28.879	18.295	1.00	42.91	O
ATOM	2174	OH2 WAT S	68	24.175	22.019	37.073	1.00	26.31	O
ATOM	2175	OH2 WAT S	69	22.152	26.896	48.344	1.00	61.11	O
ATOM	2176	OH2 WAT S	70	48.970	6.753	46.837	1.00	48.46	O
ATOM	2177	OH2 WAT S	71	42.273	27.745	52.837	1.00	33.63	O
ATOM	2178	OH2 WAT S	72	53.543	28.612	47.788	1.00	36.22	O
ATOM	2179	OH2 WAT S	73	8.907	23.447	21.629	1.00	50.44	O
ATOM	2180	OH2 WAT S	74	34.479	41.295	17.726	1.00	40.28	O
ATOM	2181	OH2 WAT S	75	34.584	20.083	21.656	1.00	47.04	O
ATOM	2182	OH2 WAT S	76	48.365	7.218	39.795	1.00	37.47	O
ATOM	2183	OH2 WAT S	77	17.856	23.193	14.949	1.00	36.50	O
ATOM	2184	OH2 WAT S	78	22.607	24.686	38.024	1.00	40.25	O
ATOM	2185	OH2 WAT S	79	21.034	18.474	37.563	1.00	57.62	O
ATOM	2186	OH2 WAT S	80	52.538	9.289	46.345	1.00	43.42	O
ATOM	2187	OH2 WAT S	81	29.673	13.056	39.115	1.00	28.10	O
ATOM	2188	OH2 WAT S	82	25.423	30.052	47.729	1.00	43.44	O
ATOM	2189	OH2 WAT S	83	27.721	18.627	14.255	1.00	44.64	O
ATOM	2190	OH2 WAT S	84	59.509	32.103	35.721	1.00	63.08	O
ATOM	2191	OH2 WAT S	85	44.482	33.024	48.358	1.00	36.03	O
ATOM	2192	OH2 WAT S	86	41.973	7.788	49.345	1.00	50.35	O
ATOM	2193	OH2 WAT S	87	37.663	22.110	25.265	1.00	41.24	O
ATOM	2194	OH2 WAT S	88	25.957	12.097	36.912	1.00	36.00	O
ATOM	2195	OH2 WAT S	89	30.437	33.017	13.345	1.00	48.23	O
ATOM	2196	OH2 WAT S	90	37.438	31.243	38.851	1.00	49.55	O
ATOM	2197	OH2 WAT S	91	19.458	34.402	26.135	1.00	43.19	O
ATOM	2198	OH2 WAT S	92	58.475	14.110	43.025	1.00	52.43	O
ATOM	2199	OH2 WAT S	93	22.370	12.343	33.413	1.00	38.81	O
ATOM	2200	OH2 WAT S	94	40.451	32.550	14.618	1.00	58.82	O
ATOM	2201	OH2 WAT S	95	54.156	16.243	28.025	1.00	48.89	O
ATOM	2202	OH2 WAT S	96	12.252	20.214	20.621	1.00	44.94	O
ATOM	2203	OH2 WAT S	97	23.229	23.360	11.991	1.00	68.77	O
ATOM	2204	OH2 WAT S	98	13.653	34.410	21.575	1.00	50.48	O
ATOM	2205	OH2 WAT S	99	29.882	16.048	51.774	1.00	53.76	O
ATOM	2206	OH2 WAT S	100	34.851	9.916	49.548	1.00	36.26	O
ATOM	2207	OH2 WAT S	101	19.731	39.777	18.001	1.00	49.92	O
ATOM	2208	OH2 WAT S	102	32.811	27.414	53.799	1.00	52.41	O
ATOM	2209	OH2 WAT S	103	54.958	10.260	45.018	1.00	61.62	O
ATOM	2210	OH2 WAT S	104	26.795	8.100	24.207	1.00	39.76	O
ATOM	2211	OH2 WAT S	105	39.473	25.414	23.627	1.00	33.71	O
ATOM	2212	OH2 WAT S	106	42.444	29.282	22.951	1.00	55.44	O
ATOM	2213	OH2 WAT S	107	54.310	2.465	42.338	1.00	81.43	O
ATOM	2214	OH2 WAT S	108	32.145	22.002	57.937	1.00	69.67	O
ATOM	2215	OH2 WAT S	109	41.182	36.953	24.858	1.00	30.32	O
ATOM	2216	OH2 WAT S	110	51.408	18.218	47.152	1.00	39.60	O
ATOM	2217	OH2 WAT S	111	31.229	18.063	15.169	1.00	58.09	O
ATOM	2218	OH2 WAT S	112	47.275	32.201	26.136	1.00	75.84	O
ATOM	2219	OH2 WAT S	113	48.484	-3.729	34.355	1.00	49.03	O

Figure 10MM

ATOM	2220	OH2 WAT S 114	17.441	23.890	30.338	1.00	38.38	O
ATOM	2221	OH2 WAT S 115	23.853	34.456	13.715	1.00	61.47	O
ATOM	2222	OH2 WAT S 116	22.764	12.193	26.654	1.00	52.95	O
ATOM	2223	OH2 WAT S 117	23.980	15.802	45.364	1.00	50.14	O
ATOM	2224	OH2 WAT S 118	35.972	34.774	45.163	1.00	60.33	O
ATOM	2225	OH2 WAT S 119	37.807	19.398	24.708	1.00	61.62	O
ATOM	2226	OH2 WAT S 120	18.366	12.430	18.822	1.00	41.37	O
ATOM	2227	OH2 WAT S 121	28.690	28.104	42.174	1.00	64.02	O
ATOM	2228	OH2 WAT S 122	49.307	6.503	32.285	1.00	36.36	O
ATOM	2229	OH2 WAT S 123	43.722	4.110	29.378	1.00	44.89	O
ATOM	2230	OH2 WAT S 124	26.343	29.966	7.876	1.00	62.82	O
ATOM	2231	OH2 WAT S 125	16.563	15.951	28.970	1.00	51.98	O
ATOM	2232	OH2 WAT S 126	20.175	23.841	38.565	1.00	55.56	O
ATOM	2233	OH2 WAT S 127	20.576	26.542	40.567	1.00	46.61	O
ATOM	2234	OH2 WAT S 128	40.494	17.605	54.649	1.00	38.00	O
ATOM	2235	OH2 WAT S 129	32.794	26.121	16.217	1.00	40.24	O
ATOM	2236	OH2 WAT S 130	32.054	30.620	12.330	1.00	41.15	O
ATOM	2237	OH2 WAT S 131	24.132	9.866	33.561	1.00	38.41	O
ATOM	2238	OH2 WAT S 132	39.539	30.733	24.819	1.00	33.26	O
ATOM	2239	OH2 WAT S 133	29.283	9.374	37.492	1.00	32.82	O
ATOM	2240	OH2 WAT S 134	27.129	12.130	39.369	1.00	36.01	O
ATOM	2241	OH2 WAT S 135	16.237	13.797	27.208	1.00	39.89	O
ATOM	2242	OH2 WAT S 136	35.590	17.878	24.571	1.00	35.55	O
ATOM	2243	OH2 WAT S 137	22.902	19.820	36.431	1.00	38.01	O
ATOM	2244	OH2 WAT S 138	52.919	12.766	42.677	1.00	32.51	O
ATOM	2245	OH2 WAT S 139	30.240	31.220	40.494	1.00	52.62	O
ATOM	2246	OH2 WAT S 140	37.369	27.649	21.696	1.00	36.64	O
ATOM	2247	OH2 WAT S 141	42.712	1.260	30.209	1.00	50.21	O
ATOM	2248	OH2 WAT S 142	24.778	5.524	41.136	1.00	37.52	O
ATOM	2249	OH2 WAT S 143	49.022	30.149	44.178	1.00	39.81	O
ATOM	2250	OH2 WAT S 144	44.239	27.252	54.601	1.00	45.46	O
ATOM	2251	OH2 WAT S 145	34.188	24.808	21.734	1.00	47.86	O
ATOM	2252	OH2 WAT S 146	32.237	13.936	23.957	1.00	47.59	O
ATOM	2253	OH2 WAT S 147	24.826	31.905	13.806	1.00	57.46	O
ATOM	2254	OH2 WAT S 148	35.287	19.774	55.093	1.00	53.61	O
ATOM	2255	OH2 WAT S 149	37.524	19.283	55.693	1.00	45.09	O
ATOM	2256	OH2 WAT S 150	35.302	8.641	24.481	1.00	51.58	O
ATOM	2257	OH2 WAT S 151	59.678	21.694	39.012	1.00	57.80	O
ATOM	2258	OH2 WAT S 152	36.143	-0.978	27.333	1.00	48.54	O
ATOM	2259	OH2 WAT S 153	14.265	20.928	14.183	1.00	62.49	O
ATOM	2260	OH2 WAT S 154	23.418	29.667	49.908	1.00	54.71	O
ATOM	2261	OH2 WAT S 155	38.604	24.411	54.120	1.00	52.33	O
ATOM	2262	OH2 WAT S 156	27.339	19.921	12.078	1.00	61.52	O
ATOM	2263	OH2 WAT S 157	55.513	12.418	43.797	1.00	48.44	O
ATOM	2264	OH2 WAT S 158	41.570	30.546	53.130	1.00	44.74	O
ATOM	2265	OH2 WAT S 159	30.332	6.416	25.709	1.00	48.89	O
ATOM	2266	OH2 WAT S 160	39.099	33.676	39.711	1.00	61.97	O
ATOM	2267	OH2 WAT S 161	25.263	8.969	43.752	1.00	53.20	O
ATOM	2268	OH2 WAT S 162	38.420	33.913	42.190	1.00	50.80	O
ATOM	2269	OH2 WAT S 163	41.309	37.709	36.508	1.00	59.09	O
ATOM	2270	OH2 WAT S 164	39.795	36.567	20.290	1.00	53.69	O
ATOM	2271	OH2 WAT S 165	17.433	22.843	32.869	1.00	39.36	O
ATOM	2272	OH2 WAT S 166	37.147	1.819	26.855	1.00	35.01	O
ATOM	2273	OH2 WAT S 167	26.808	29.856	51.140	1.00	34.22	O
ATOM	2274	OH2 WAT S 168	20.735	23.758	11.662	1.00	55.01	O
ATOM	2275	OH2 WAT S 169	37.554	20.226	20.434	1.00	54.40	O
ATOM	2276	OH2 WAT S 170	36.378	37.998	37.846	1.00	58.07	O
ATOM	2277	OH2 WAT S 171	18.421	12.604	25.862	1.00	45.72	O